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TERMINAL (ENTER 1, 2, 3, OR ?):2

```
Welcome to STN International
NEWS
                Web Page URLs for STN Seminar Schedule - N. America
NEWS
                 "Ask CAS" for self-help around the clock
NEWS
                The Derwent World Patents Index suite of databases on STN
        OCT 23
                has been enhanced and reloaded
NEWS
        OCT 30
                CHEMLIST enhanced with new search and display field
NEWS
     5
        NOV 03
                JAPIO enhanced with IPC 8 features and functionality
NEWS
     6
        NOV 10
                CA/CAplus F-Term thesaurus enhanced
NEWS
        NOV 10
                STN Express with Discover! free maintenance release Version
                 8.01c now available
NEWS
     8
        NOV 20
                CAS Registry Number crossover limit increased to 300,000 in
                 additional databases
                CA/CAplus to MARPAT accession number crossover limit increased
NEWS
     9
        NOV 20
                 to 50,000
NEWS 10 DEC 01
                CAS REGISTRY updated with new ambiguity codes
NEWS 11 DEC 11
                CAS REGISTRY chemical nomenclature enhanced
NEWS 12 DEC 14
                WPIDS/WPINDEX/WPIX manual codes updated
                GBFULL and FRFULL enhanced with IPC 8 features and
NEWS 13 DEC 14
                 functionality
NEWS 14 DEC 18
                CA/CAplus pre-1967 chemical substance index entries enhanced
                with preparation role
NEWS 15
       DEC 18
                CA/CAplus patent kind codes updated
NEWS 16 DEC 18
                MARPAT to CA/Caplus accession number crossover limit increased
                 to 50,000
NEWS 17
        DEC 18
                MEDLINE updated in preparation for 2007 reload
NEWS 18
        DEC 27
                 CA/CAplus enhanced with more pre-1907 records
NEWS 19
        JAN 08
                CHEMLIST enhanced with New Zealand Inventory of Chemicals
NEWS EXPRESS NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT
             MACINTOSH VERSION IS V6.0c(ENG) AND V6.0jc(JP),
             AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.
              STN Operating Hours Plus Help Desk Availability
NEWS HOURS
NEWS LOGIN
             Welcome Banner and News Items
NEWS IPC8
              For general information regarding STN implementation of IPC 8
              X.25 communication option no longer available
NEWS X25
```

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FILE 'HOME' ENTERED AT 17:36:54 ON 11 JAN 2007

=> fil reg
COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 0.21 0.21

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 17:37:03 ON 11 JAN 2007 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2007 American Chemical Society (ACS)

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STRUCTURE FILE UPDATES: 10 JAN 2007 HIGHEST RN 917201-58-2 DICTIONARY FILE UPDATES: 10 JAN 2007 HIGHEST RN 917201-58-2

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TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

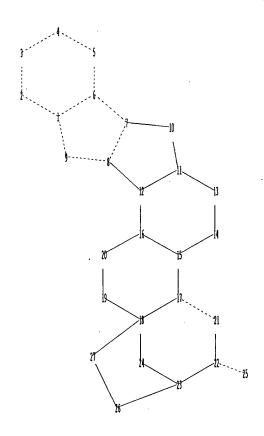
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=>

Uploading C:\Program Files\Stnexp\Queries\10511731s1.str



chain nodes :

25

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 26 27

chain bonds :

22-25

ring bonds :

exact/norm bonds :

1-2 1-6 1-9 2-3 3-4 4-5 5-6 6-7 7-8 7-10 8-9 8-12 10-11 11-12 11-13 12-16 13-14 14-15 15-16 15-17 16-20 17-18 17-21 18-19 18-24 18-27 19-20 21-22 22-23 22-25 23-24 23-26 26-27

Match level:

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:CLASS 26:Atom 27:Atom

L1 STRUCTURE UPLOADED

=> d 11

L1 HAS NO ANSWERS

L1 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

SAMPLE SEARCH INITIATED 17:37:29 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED -18 TO ITERATE

100.0% PROCESSED

18 ITERATIONS

1 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

COMPLETE BATCH

PROJECTED ITERATIONS:

106 TO 614

PROJECTED ANSWERS:

1 TO

T.2

1 SEA SSS SAM L1

=> s l1 full

FULL SEARCH INITIATED 17:37:33 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 255 TO ITERATE

100.0% PROCESSED

13 ANSWERS

SEARCH TIME: 00.00.01

255 ITERATIONS

13 SEA SSS FUL L1

=> fil hcaplus

COST IN U.S. DOLLARS

SINCE FILE TOTAL

ENTRY

SESSION

172.31

FULL ESTIMATED COST

FILE 'HCAPLUS' ENTERED AT 17:37:39 ON 11 JAN 2007 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

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FILE COVERS 1907 - 11 Jan 2007 VOL 146 ISS 3 FILE LAST UPDATED: 10 Jan 2007 (20070110/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 13

L4

62 L3

=> fil reg

'COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 2.60 174.91

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 17:38:27 ON 11 JAN 2007 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2007 American Chemical Society (ACS)

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STRUCTURE FILE UPDATES: 10 JAN 2007 HIGHEST RN 917201-58-2 DICTIONARY FILE UPDATES: 10 JAN 2007 HIGHEST RN 917201-58-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

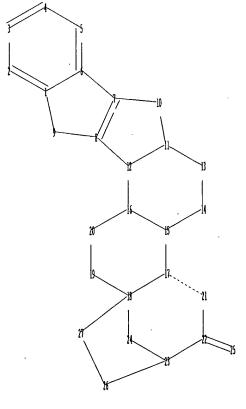
TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

->
Uploading C:\Program Files\Stnexp\Queries\10511731s2.str



chain nodes :

=> s 15 full

```
'25
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
24 26 27
chain bonds :
22-25
ring bonds :
1 - 2 \quad 1 - 6 \quad 1 - 9 \quad 2 - 3 \quad 3 - 4 \quad 4 - 5 \quad 5 - 6 \quad 6 - 7 \quad 7 - 8 \quad 7 - 10 \quad 8 - 9 \quad 8 - 12 \quad 10 - 11 \quad 11 - 12 \quad 11 - 13
12-16 13-14 14-15 15-16 15-17 16-20 17-18 17-21 18-19 18-24 18-27 19-20
21-22 22-23 23-24 23-26 26-27
exact/norm bonds :
1-9 6-7 7-8 7-10 8-9 8-12 10-11 11-12 11-13 12-16 13-14 14-15 15-16
15-17 16-20 17-18 17-21 18-19 18-24 19-20 21-22 22-23 22-25 23-24
exact bonds :
18-27 23-26 26-27
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
containing 1 :
Match level:
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:CLASS 26:Atom 27:Atom
L5
        STRUCTURE UPLOADED
=> d 15
L5 HAS NO ANSWERS
L5
                STR
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *
Structure attributes must be viewed using STN Express query preparation.
SAMPLE SEARCH INITIATED 17:40:27 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -
                                        1 TO ITERATE
100.0% PROCESSED
                        1 ITERATIONS
                                                                   1 ANSWERS
SEARCH TIME: 00.00.01
FULL FILE PROJECTIONS:
                        ONLINE **COMPLETE**
                                 **COMPLETE**
                        BATCH
PROJECTED ITERATIONS:
                                 1 TO
                                             80
PROJECTED ANSWERS:
                                  1 TO
                                             80
L6
          1 SEA SSS SAM L5
=> s lf ull
          1136 LF
            12 ULL
             0 LF ULL
L7
                 (LF(W)ULL)
```

'FULL SEARCH INITIATED 17:40:40 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 20 TO ITERATE

100.0% PROCESSED

20 ITERATIONS

12 ANSWERS

SEARCH TIME: 00.00.01

L8

12 SEA SSS FUL L5

=> fil hcaplus

COST IN U.S. DOLLARS

SINCE FILE TOTAL

ENTRY SESSION

FULL ESTIMATED COST

183.35 358.26

FILE 'HCAPLUS' ENTERED AT 17:40:45 ON 11 JAN 2007 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

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FILE COVERS 1907 - 11 Jan 2007 VOL 146 ISS 3 FILE LAST UPDATED: 10 Jan 2007 (20070110/ED)

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=> s 18

L9

61 L8

=> d ed ibib abs hitstr 1-61

LD ANSWER 1 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN
ED Entered STN: 03 Nov 2006
ACCESSION NUMBER: 2006:1156323 HCAPLUS
DOCUMENT NUMBER: 145:465702
INTILE: Immune response inhibition using indole diterpene compound Christine; Wong, Shu Shyan Agreearch Limited, N. 2.
PATENT ASSIGNEE(S): Agreearch Limited, N. 2.
POT Int. Appl., Sipp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LINGUAGE: Patent
English
FAMILY ACC. NUM. COUNT: 1

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PAT	ENT	NO.			KIN	D	DATE			APPL	ICAT	ION	NO.		D.	ATE	
						_									_		
	2006				A1		2006	1102	,	₩O 2	006-	NZ86			2	0060	426
	W:	AE.	AG.	AL.	AM.	AT.	AU,	AZ.	BA.	BB.	BG,	BR.	BW.	BY,	BZ,	CA,	CH,
		CN.	co.	CR.	cu.	CZ.	DE.	DK.	DM.	DZ.	EC.	EE.	EG.	ES,	FI.	GB,	GD,
		GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	15,	JP,	ΚE,	KG,	KM,	KN,	KP,	KR,
		KZ,	LC,	LK.	LR,	LS,	LT.	LU,	LV,	LY,	MA,	MD,	MG,	MK,	MN,	MW,	MX,
		MZ,	NA.	NG.	NI,	NO,	NZ.	OM,	PG.	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,
		SG,	SK,	SL,	SM,	SY,	TJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,
		VN,	YU,	ZA,	ZM,	ZV											
	RW:	AT,	BE,	BG.	CH,	CY.	CZ,	DE,	DK,	EE,	ES,	·FI,	FR,	GB,	GR,	HU,	IE,
		IS,	IT.	LT.	LU,	LV,	MC,	NL,	PL,	PT,	RO,	SE,	SI,	SK,	TR,	BF,	ВJ,
		CF,	CG,	CI,	CM,	GA,	GN,	GQ,	G₩,	ML,	MR,	NE,	SN,	TD,	TG,	BW,	GH,
		GM,	KE,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	AZ,	BY,
		KG,	KZ,	MD,	RU,	TJ,	TH										

RG, KZ, ND, RU, TJ, TH
PRIORITY APPLM. INFO: NZ 2005-538116 A 20050428
AB The invention relates to uses and methods of using indole diterpene compds. or derivs, thereof to influence the production of cytokines from

compds. or derivs. thereof to influence the production of cytokines from compds. or derivs. thereof to influence the production are described including diagnosis methods, treatments for avoiding an undesirable immune response such as infection, sepsis, allergies, transplant rejection, and anaphylactic shock. Use in terms of pain prevention or reduction of inflammation is also described. Lolitrem B demonstrated immunosuppressant activity by inhibiting TNFs and IL-6 production in murine macrophages stimulated by lipopolysaccharide.

11024-55-8, Paspalicine 11024-55-80, Paspalicine, derivs.; isomers or analogs 63722-91-8, Paspalinine, derivs.; isomers or analogs 63722-90-7D, Paspalitrem A, derivs.; isomers or analogs 63764-58-9, Paspalitrem B, derivs.; isomers or analogs 63764-58-9, Paspalitrem B, derivs.; isomers or analogs 63764-58-9D, Paspalitrem B, derivs.; isomers or analogs 90866-61-8, Paspalitrem B, derivs.; isomers or analogs 90866-61-8, Paspalitrem C, derivs.; isomers or analogs 63764-58-9, Paspalitrem C, derivs.; isomers or analogs (1975), Paspalitrem C,

L9 ANSWER 1 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

63722-91-8 HCAPLUS

03/22-31-8 (no. 103)
4H-3, 15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one,
2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-2,2,13b,13ctetramethyl-, (3R,5b5,7as,13b5,13c,15a), 15c), 16c)

637/2-91-8 HCAPUDS
4R-3,15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one,
2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-2,2,13b,1
tetramethyl-, (3R,5bS,7aS,13bS,13cR,15aS)- (9CI) (CA INDEX NAME)

63764-58-9 HCAPLUS
4H-3,15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one,
2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-10-[(1E)-3-hydroxy-3-methyl-1-butenyl]-2,2,13b,13c-tetramethyl-, (3R,5bS,7aS,13bS,13cR,15aS)-(9CI) (CA INDEX NAME)

L9 ANSWER 1 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

11024-55-8 HCAPLUS 4H-3,15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one, 2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-2,2,13b,13c-tetramethyl-, (3R,5bR,7as,13bs,13cs,15as)- (9CI) (CA INDEX NAME)

63722-90-7 HCAPLUS
4H-3,15a-Epoxyl-1-benzoxepino(6',7':6,7)indeno[1,2-b]indo1-4-one,
2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-2,2,13b,13ctetramethyl-10-(3-methyl-2-butenyl)-, (3R,5b5,7a5,13b5,13cR,15a5)- (9CI)
(CA INDEX NAME)

63722-90-7 HCAPLUS

63722-90-7 RLAPUS
4H-3,15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one,
2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecabydro-5b-hydroxy-2,2,13b,13ctetramethyl-10-(3-methyl-2-butenyl)-, (3R,5b5,7a5,13b5,13cR,15a5)- (9CI)
(CA INDEX NAME)

L9 ANSWER 1 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

63764-58-9 HCAPLUS

WH-3.15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one, 2,3.5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-10-[(1E)-3-hydroxy-3-methyl-1-butenyl]-2,2,13b,13c-tetramethyl-, (3R,5bS,7aS,13bS,13cR,15aS)-(SCI) (CA INDEX NAME)

90866-61-8 HCAPLUS
4H-3,15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one,
2,3,5b,67,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-2,2,13b,13c-tetramethyl-9-(3-methyl-2-butenyl)-, (3R,5b5,7a5,13b5,13cR,15a5)- (9CI)
(CA INDEX NAME)

90866-61-8 HCAPLUS

4H-3,15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one,
2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-2,2,13b,13c-

ANSWER 1 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued) tetramethyl-9-(3-methyl-2-butenyl)-, (3R,5bS,7aS,13bS,13cR,15aS)- (9CI) (CA INDEX NAME)

REFERENCE COUNT:

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 3 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN ED Entered STN: 09 Dec 2005 ACCESSION NUMBER: 2005:1289303 HCAPLUS DOCUMENT NUMBER: 144:36257 Preparation of substituted ben:

INVENTOR(S):

144:36257
Preparation of substituted benzoic acid and analogs as EP4 receptor agonists for treatment of glaucoma and related diseases
Belley, Michelr Colucci, John, Girard, Mario, Han,
Yongsin; Lacombe, Patrick
Merck Frosst Canada Ltd., Can.
PCT Int. Appl., 80 pp.
CODEN: PIXMD2

PATENT ASSIGNEE(S): SOURCE:

Patent English DOCUMENT TYPE:

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

		NO.			KIN	D	DATE								D	ATE	
						-									-		
WO	WO 2005116010			A1 20051208			WO 2005-CA773					20050520					
	W:	AE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BW,	BY,	BZ,	CA,	CH,
		CN.	co.	CR.	CU.	CZ.	DE.	DK.	DM.	DZ.	EC.	EE.	EG.	ES,	FI,	GB,	GD,
		GE.	GH.	GM.	HR.	HU.	ID.	IL.	IN.	IS.	JP.	KE.	KG.	KM,	KP.	KR.	KZ,
							LU.										
							PG,										
							TN,										
			ZM.														
	RW	BW.	GH.	GM.	KE.	LS.	MW.	MZ.	NA.	SD.	SI	52.	TZ.	UG.	ZM.	ZW.	AM.
							RU.										
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IORIT	Y AP									US 2	004-	5746	53P		P 2	0040	526
HER S	OURC	E(S):			MAR	PAT	144:	3625	7								

DOCUMENT TYPE: LANGUAGE: AB Toxicity

National Academy of Sciences, India
JMENT TYPE: Journal
JUAGE: English
Toxicity of aflatrem and penitrem A produced by Aspergillus flavus and
Penicillium puberulum was tested on chicks. Significant decrease in iron,
proteins, calcium, abumins and urea of serum, while increase in SGOT and
SGOT was recorded under the influence of penitrem A. Similarly WBC
decreased, while RBC increased due to penitrem A. Significant changes in
proteins, glycogen, and cholesterol of liver, brain, heart and kidney were
also recorded. Histopathol. changes of much significance were also
recorded in tissues of heart, liver and brain.
INDEXING IN PROGRESS
70553-75-2, Aflatrem
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(aflatrem and penitrem A produced by Aspergillus flavus and Penicillium
puberulum tested on chicks)
70553-75-2 HCAPLUS
4H-3, 15a-Epoxy-1-benzosepino[6',7':6,7]indeno[1,2-b]indol-4-one,
9-(1,1-dimethyl-2-propenyl)-2,3,5b,6,7,7a,8,13,15b,13c,14,15-dodecahydro5b-hydroxy-2,2,13b,13c-tetramethyl-, (3R,5bS,7as,13bS,13cR,15aS)- (9CI)
(CA INDEX NAME)

REFERENCE COUNT:

THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 3 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

Title compds. I [21 = CW1, N; W1, X, W = H, amino, halo; Y = H, halo, alkoxy, etc.; R1-2 = H, halo, alkyl, etc.; R3 = R1, OH, etc.; Q = carboxy, tetrazolyl, etc.; Ar1 = Ph, pyridinyl, thienyl, etc.; Ar2 = benzoxadiazolyl, Ph, pyridyl, etc.] are prepared For instance, II is

prepared
in 4 steps from 3-bromo-5-chloro-2-hydroxybenzaldehyde, 3-methoxybenzyl
bromide, 4-bromobenzonitrile and azidotributyltin. II has a binding
affinity for the EP4 subtype of prostaglandin E2 receptor of 2.0 nM. I
are useful for the treatment of glaucoma and other conditions which are
related to elevated intraocular pressure in the eye of a patient. I are
also used for mediating the bone modeling and remodeling processes of
osteoblasts and osteoclasts.
IT 11024-55-8, Paspalicine
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(agonists of EP4 receptor subtype of PGE2 receptors and their use for
treatment of glaucoma, other conditions and for mediating bone modeling
and remodeling processes of osteoblasts and osteoclasts)

RN 11024-55-8 HCAPLUS
CN 4H-3,15a-Epory-1-benzoxepino[6',7'':6,7]indeno[1,2-b]indol-4-one,
2,3,5b,6,7,8,131,13b,13c,14,15-dodecahydro-2,2,13b,13c-tetramethyl-,
(3R,SbR,7aS,13bS,13cS,15aS)- (9CI) (CA INDEX NAME)

ANSWER 3 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN

(Continued)

REFERENCE COUNT:

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 4 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

L9 ANSWER 4 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN

ED Entered STN: 14 Oct 2005
ACCESSION NUMBER: 2005:1106800 HCAPLUS

DOCUMENT NUMBER: 143:387049

Preparation of disubstituted piperidinones, oxazinanones, thiazinanones, and morpholinones as EP4
receptor agonist for treatment of ocular and bone

INVENTOR (S):

disorders Billot, Xavier: Colucci, John: Han, Yongxin: Wilson, Marie-claire: Young, Robert N. PATENT ASSIGNEE(S):

Can.
U.S. Pat. Appl. Publ., 30 pp., Division of U.S. Ser.
No. 297,257.
CODEN: USXXCO

DOCUMENT TYPE:

English 2 LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005227969 US 2004198701 US 7053085	A1 A1 B2	20051013 20041007 20060530	US 2005-146992 US 2004-797257	20050607 20040310
PRIORITY APPLN. INFO.:		20000330	US 2004-797257 A US 2003-457700P P	3 20040310 20030326

OTHER SOURCE(S):

OS 2004-97257 A3 20040310 CR SOURCE(S): MARPAT 143:387049

R SOURCE(S): MARPAT 143:387049

This invention relates to potent selective agonists of the EP4 subtype of prostaglandin E2 receptors, their use or a formulation thereof in the treatment of glaucoma and other conditions, which are related to elevated intraocular pressure in the eye of a patient. This invention further relates to the use of the compds. of this invention for mediating the bone modeling and remodeling processes of the osteoblasts and osteoclasts. In particular, this invention relates to a series of 1,6-disubstituted piperidin-2-one, 3,4-disubstituted 1,3-oxazinan-2-one, 3,4-disubstituted 1,3-thiszinan-2-one, and 4,5-disubstituted morpholin-3-one derivs 1 compds. of the invention are optionally formulated with other therapeutic agents useful in treating eye disorders or in simulating bone formation such as β-adrenergic blocking agents, carbonic anhydrase inhibitors, and bisphosphonates. Preparation schemes for the compds. of the invention

are

disclosed.

1024-55-9, Papplicine
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
 (addnl. therapeutic agent; preparation of disubstituted piperidinones, oxazinanones, thiazinanones, and morpholinones as EP4 receptor agonists for treatment of ocular and bone disorders)

1024-55-8 HCAPLUS
4H-3,15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one,
2,5,5b.6,7a,8,13,13b,13c,14,15-dodecahydro-2,2,13b,13c-tetramethyl-,
(3R,5bR,7aS,13bS,13cS,15aS)- (9CI) (CA INDEX NAME)

L9 ANSWER 5 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN

ED Entered STN: 22 Nov 2004
ACCESSION NUMBER: 2004:1000947 HCAPLUS
DOCUMENT NUMBER: 142:87348 142:87348
AUTHOR(S): 2hang, Shuguang; Monahan, Brendon J.; Tkacz, Jan S.;
CORPORATE SOURCE: Centre for Functional Genomics, Institute of Molecular BioSciences, Massey University, Palmerston North, N. 2.

Centre for Functional Genomics, Institute of Molecular BioSciences, Massey University, Palmerston North, N. 2.

SOURCE: Applied and Environmental Microbiology (2004), 70(11), 6875-6883
CODEN: ADMIDF: ISSN: 0099-2240

PUBLISHER: American Society for Microbiology
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Aflatrem is a potent tremorgenic mycotoxin produced by the soil fungus Aspecgillus flavus and is a member of a large structurally diverse group of secondary metabolites known as indole-diterpenes. By using degenerate primers for conserved domains of fungal geranyleranyl disphosphate synthases, we cloned two genes, atmG and ggaA (an apparent pseudogene), from A. flavus. Adjacent to atmG are two other genes, atmG and atmM. These three genes have 64 to 701 mmino acid sequence similarity and conserved syntemy with a cluster of orthologous genes, paxG, paxC, and paxM, from Penicillium paxilli which are required for indole-diterpene biosynthesis. AtmG, atmC, and atmM are coordinately expressed, with transcript levels dramatically increasing at the onset of aflatrem biosynthesis by A. flavus. This provides the first genetic evidence for the biosynthesic pathway of aflatrem in a functional homolog of paxM. Thus, atmG, atmC, and atmM are necessary, but not sufficient, for aflatrem biosynthesis by A. flavus. This provides the first genetic evidence for the biosynthetic pathway of aflatrem in A. flavus.

170553-75-2, Aflatrem

RL: BSU (Biological study, unclassified); BIOL (Biological study) (indole-diterpene gene cluster from Aspergillus flavus)

NN 70553-75-2, Chaltrem

RL: BSU (Biological study, unclassified); BIOL (Biological study)
(indole-diterpene gene cluster from Aspergillus flavus)

NN 70553-75-2, Aflatrem

RL: BSU (Biological study, unclassified); BIOL (Biological study)
(indole-diterpene gene cluster from Aspergillus flavus)

NN 70553-75-2, Aflatrem

RL: BSU (Biological study, unclassified); BIOL (Biological study)
(indole-diterpene gene cluster from Aspergillus flavus)

NN 70553-75-2, Aflatrem

REFERENCE COUNT:

THERE ARE 55 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 6 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN ED Entered STN: 07 May 2004 ACCESSION NUMBER: 2004:370925 HCAPLUS DOCUMENT NUMBER: 140:391155 TITLE: A preparation of pyrrolidin-2-c

INVENTOR (S):

140:391155
A preparation of pyrrolidin-2-one derivatives as EP4 receptor agonists
Billot, Zavier; Han, Yongxin; Young, Robert N.;
Girard, Marton Wilson, Marie-Claire
Merck Frosst Canada & Co., Can.; Beunard, Jean-Luc;
Colucci, John
PCT Int. Appl., 46 pp.
CODEN: PIXXD2
Patent
1 PATENT ASSIGNEE(S):

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT 1	NO.					DATE			APPL	ICAT	ION :	NO.		0	ATE	
					-											
WO 20041	0378	13		A1				WO 2003-CA1618								
¥:	ΑE,	AG,	AL,	AM,	AT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN
	CO,	CR,	· CU.	CZ,	DE,	DK.	DM.	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,	GΕ
	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KR,	KZ,	LC,	LK,	LR
	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NI,	NO,	NZ,	OM
						RU.										
	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW			
RW:						MZ,								AM,	ΑZ,	BY
	KG,	KZ,	MD,	RU,	TJ,	TM.	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES
	FI,	FR,	GB,	GR,	HU,	IE,	IT,	LU,	MC,	NL,	PT,	RO,	SE,	51,	SK,	TR
	BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG
AU 2003	2758	38		Al		2004	0513									
PRIORITY APP	LN.	INFO	.:						US 2	002-	4215	03P		P 2	0021	025
									WO 2	003-	CA16	18	1	w 2	0031	023
OTHER SOURCE	(5):			MAR	PAT	140:	3911	55								

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The invention relates to pyrcolidin-2-one derivs. of formula I [wherein: Y is C(0) or CH(OR); YI = (CH2)2, CH:CH, or 1,2-cyclepropanediyl, CH:CH, or 1,2-cyclepropanediyl, CH:CH, C:tplbond.C, or a bond; RI = CH0, OR, CN, etc.; Q is a divalent (heterolarylene group; W is a bond, CH:CH, unsubstituted C1-6 alkylene, or a C1-6 alkylene substituted with 1-4 halogen atoms; R2 = C1-6alkyl, (CH2)0-8-C5-10aryl, 0-C3-10cycloalkyl, O-C1-10alkyl, etc.], useful as selective agonists of the EP4 subtype of prostaglandin E2 receptors. The invention compds. are useful for the treatment of glaucoma and other conditions which are related to elevated intraocular pressure in the eye of a patient. The invention relates to the use of the title compds. for mediating the bone modeling and remodeling processes of the osteoblasts and osteoclasts. The effect of the prepared EP4 agonist compds. on intraocular pressure in rabbits and monkeys was investigated. The compds. were also tested in bone recorption assays (ECS0 = 0.001-100 µM). For instance, compound II was prepared via amination of cinnamate derivative III by pyrrolidine derivative IV, hydrolysis of

L9 ANSWER 7 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN
ED Entered STN: 07 May 2004
ACCESSION NUMBER: 2004:370901 HCAPLUS
DOCUMENT NUMBER: 140:391154
TITLE: A preparation of myrrolidical

140:391154
A preparation of pyrrolidinone derivatives useful as selective EP4 receptor agonists
Sillot. Xavier: Beunard, Jean-Lucr Han, Yongxin: Young, Robert N.; Colucci, John; Girard, Mario; Wilson, Marie-Claire
Merck Frosst Canada & Co., Can.
PCT Int. Appl., 47 pp.
CODEN: PIXXO2
Patent

INVENTOR(S):

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: Patent

English FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

								DATE				ICAT					ATE		
¥	О		0377	86		A2		2004									0031	023	
w	0							2004											
		W:						AU,											
			co,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,	GE,	
			GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KΕ,	KG,	ΚR,	ΚZ,	LC.	LK,	LR,	
			LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NI,	NO,	NZ,	OM,	
			PG,	PH,	PL,	PT,	RO,	. RU,	sc,	SD,	SE,	SG,	SK,	SL,	SY,	TJ,	TM,	TN,	
			TR,	TT,	TZ,	UA,	ΰĠ,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZV				
		R₩:	GH,	GM,	ΚĔ,	LS,	MW,	MZ,	SD,	SL,	SZ.	TZ,	UG,	ZM,	ZΨ,	AM,	ΑZ,	BY,	
			KG,	KZ,	MD,	RU,	TJ,	TM,	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,	
			FI,	FR,	GB,	GR,	HU,	IE,	IT,	LU,	MC,	NL,	PT,	RO,	SE,	SI,	SK,	TR,	
			BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	G₩,	ML,	MR,	ΝE,	SN,	TD,	TG	
								2004											
A	IJ.	2003	2758	40		A1		2004	0513		AU 2	:003-	2758	40		2	0031	023	
E	P	1558	602			A2		2005	0803		EP 2	:003-	8092	27		2	0031	023	
		R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PΤ,	
			ΙE,	SI,	LT,	LV,	FI,	, RO,	MK,	CY,	AL,	TR,	BG,	CZ,	EE,	HU,	SK		
J	P	2006	5055	72		T		2006	0216		JP 2	004-	5456	45		2	0031	023	
U	S	2006	1670	81		A1		2006	0727		US 2	005-	5284	19		2	0050	317	
ORI	TY	APP	LN.	INFO	. :						US 2	002-	4214	02P		P 2	0021	025	
											WO 2	003-	CA16	20	,	₩ 2	0031	023	
ŒR	SC	URCE	(5):		•	MAR	PAT	140:	3911	54									

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

The invention relates to pyrrolidinone derivs, of formula I (wherein: Y1 = (CH2)2, CH:CH, 1,2-cyclopropanediyl, Y1 is C(0) or CH(OH); A is (CH2)1-4; Z = 0, S, 1,2-cyclopropanediyl, HC:CH, C.tplbond.C, or a bond Q is a disubstituted (hetero) aryl ring; W is a bond, unsubstituted C1-6 alkylene, or C1-6 alkylene substituted with 1-4 halogen atoms; R1 = OH, CN, CHO, CHO, ct.; R2 = C1-6alkyl, (CH2)0-8-(C6-10aryl), O-C1-10alkyl, etc., R3 and R4 are independently selected from halogen, C1-6alkyl, or R3 and R4, together with the carbon atom to which they are attached, form a C3-7 cycloalkyl ring] useful as potent selective agonists of the EP4 subtype of prosteglandin E2 receptors. The invention compds. are useful in treatment of glaucoma and other conditions which are related to the elevated intraocular pressure in the eye. The invention relates to the use of the invention compds. for mediating the bone modeling and remodeling processes

ANSWER 6 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued) the obtained pyrrolidine deriv. V (R3 = CMe, R4 = CH2OTBDMS), addn. of BnC(0)CH2P(O) (OEt)2, redn. of the obtained unsatd. Ketone V (R3 = CMe, R4 = CH:CHC(0)Bn], and subsequent hydrolysis (example 1, no yield data). 11024-55-8, Paspalicine
R1: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (Maxi-K channel blocker, drug component; preparation of pyrrolidin-2-one derivs. as EP4 receptor agonists)
11024-55-8 HCAPLUS
4H-3,15a-Epoxyl-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one, 2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-2,2,13b,13c-tetramethyl-, (3R,5bR,7as,13bs,13cs,15as) - (9CI) (CA INDEX NAME)

ANSWER 7 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued) of the osteoblasts and osteoclasts. The invention compds. were tested as EP4 agonists on intraocular pressure in rabbits and monkeys; prostanoid receptor binding assays and bone resorption assays were performed (in a subclass of the invented compds., agonists have EC50 values from 0.01 µH to 10 µH). The synthesized stereoisomeric pyrrolidinones II were prepd. from pyrrole deriv. III via oxidn., condensation with PhCPZC(O)CHZP(O) (OMe) 2, keto-group redn. of the obtained unsatd. ketone IV, alc. protection, N-cleavage, addn. of thiophene deriv. V to the obtained compd. VI, sepn. of the isomers, alc. deprotection, and hydrolysis.

obtained compd. VI, sepn. of the isomers, alc. deprotection, and hydrolysis.
11024-55-8, Paspalicine
RI: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(Maxi-K channel blocker, drug component; preparation of pyrrolidinone derivs. useful as selective EP4 receptor agonists)
11024-55-8 HCAPLUS
4H-3,15a-Epoxy-1-benzoxepino(6',7':6,7]indeno[1,2-b]indol-4-one, 2,3,5b,6,7a,8,13,13b,13c,14,15-dodecahydro-2,2,13b,13c-tetramethyl-, (3R,5bR,7as,13bS,13cS,15aS)- (9CI) (CA INDEX NAME)

a'9 ANSWER 8 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN ED Entered STN: 31 Dec 2003 ACCESSION NUMBER: 2003:1014246 HCAPLUS DOCUMENT NUMBER: 140:339503

Tremorgenic and nontremorgenic 2,3-fused indole diterpenoids

TITLE:

AUTHOR(S): CORPORATE SOURCE:

diterpencids Sings, Heather: Singh, Sheo Merck Research Laboratories, Rahway, NJ, 07065, USA Alkaloids (San Diego, CA, United States) (2003), 60, SOURCE: 51-163

51-163 CODEN: ALKAAR; ISSN: 0099-9598 Elsevier Science Journal; General Review PUBLISHER:

COEM: ALKARA, ISSN: 0099-9598

PUBLISHER: Elsevier Science
DOCUMENT TYPE: Journal: General Review
LANGUAGE: English

AB A review of synthesis, natural origin, properties and tremorgenic activity
of disterpenoid indole alkaloids was presented. The diterpenoid alkaloids
reviewed were divided into groups which included paspalanes, aflatremanes,
penitremanes, janthirremanes, and holitremanes. The reported biol.
activities of some of these alkaloids have included definitions of various
tremors and staggers, which were reviewed in 1999, including a proposal
for a pharmacophore model for y-aminobutyric acid (GABA) activity. Also
included were details of the isolation and structure elucidation, chemical
modifications, and biol. activities of all alkaloids reported in the
published literature until 2002.

17 70553-75-2DP, Aflatrem, analogs
RL: BSU (Biological study, unclassified): PRP (Properties): SPN (Synthetic
preparation): BIOL (Biological study): PREP (Preparation)
(nontremorgenic 2.3-fused indole diterpenoids)

N7 70553-75-2 HCAFLUS

CN 4H-3,15a-Epoxy-1-bencomepino[6',7':6,7]indemo[1,2-b]indol-4-one,
9-(1,1-dimethyl-2-propenyl): 2,3.5b,6,7,7.a,8,13.13b,13c,14,15-ddecahydro5b-hydroxy-2,2,13b,13c-tetramethyl-, (3R,5b5,7as,13b5,13cR,15aS)- (9CI)
(CA INDEX NAME)

REFERENCE COUNT:

165 THERE ARE 165 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 9 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued) 4H-3,15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one, 2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-2,2,13b,13c-tetramethyl-,(3R,5bR,7as,13bs,13cS,15as)-(9CI) (CA INDEX NAME)

11024-55-8 HCAPLUS

1104-95-8 MLAR UUS
4H-3, 15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one,
2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-2,13b,13c-tetramethyl-,
(3R,5bR,7a,31b5,1365,1555) - (9C) (CA INDEX NAME)

63722-90-7 HCAPLUS
4H-3, 15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one,
2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-2,2,13b,13ctetramethyl-10-(3-methyl-2-butenyl)-, (3R,5bS,7aS,13bS,13cR,15aS)- (9CI)
(CA INDEX NAME)

63722-90-7 HCAPLUS

WHEN THE STATE OF THE STATE OF

L9 ANSWER 9 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN ED Entered STN: 26 Dec 2003 ACCESSION NUMBER: 2003:1006788 HCAPLUS

DOCUMENT NUMBER: TITLE:

140:53461
Maxi-K potassium channel blockers for treatment of glaucoma and as ocular neuroprotective agents Goetz, Michael A.; Kaczorowski, Gregory J.; Monaghan, Richard L.; Strohl, William R.; Tkacz, Jan S. Merck & Co., Inc., USA
PCT Int. Appl., 50 pp.
CODEN: PIXXO2
Patent INVENTOR(S):

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: Patent English LANGUAGE:

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.			DATE		ICATION I		DATE	
WO 20031058							20030	613
W: AE,	AG, AL, A	M, AT,	AU, AZ,	BA, BB,	BG, BR,	BY, BZ,	CA, CH,	CN,
	CR, CU, C							
	HR. HU. I							
	LU. LV. M							
	PT. RO. R							
	UG. US. U					,	,	,
	GM, KE, L					2M. 2W.	AM. AZ.	BY.
	KZ, MD, R							
	FR, GB, G							
	BJ, CF, C							
CA 2488884								
AU 20032455								
EP 1515730								
	BE, CH, D							
								PI,
	SI, LT, L							
JP 20055380								
US 20052397						54		
PRIORITY APPLN.	INFO.:			US 20	002-3892	05P 1	P 20020	

invention discloses the use of potent potensium channel blockers or a formulation thereof in the treatment of glaucoma and other conditions related to elevated intraocular pressure in the eye of a patient. The invention also discloses the use of such compds. to provide a neuroprotective effect to the eye of a mammalian species, particularly humans. AB

Inventor.

ANSWER 9 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

63722-91-8 HCAPLUS
4H-3,15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one,
2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-2,2,13b,13ctetramethyl-, (3R,5bS,7aS,13bS,13cR,15aS)- (9CI) (CA INDEX NAME)

63722-91-0 HCAPLUS
4H-3,15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one,
2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-2,2,13b,13ctetramethyl-, (3R,5bS,7aS,13bS,13cR,15aS)- (9CI) (CA INDEX NAME)

63764-58-9 HCAPLUS 4H-3, 15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one, 2,3,5b,6',7-a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-10-[(1E)-3-hydroxy-3-methyl-1-butenyl]-2,2,13b,13c-tetramethyl-, (3R,5bS,7aS,13bS,13cR,15aS)-[9CI] (CA INDEX NAME)

ANSWER 9 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

63764-58-9 HCAPLUS
4H-3,15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one,
2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-10-[(1E)-3-hydroxy-3-methyl-1-butenyl]-2,2,13b,13c-tetramethyl-, (3R,5bS,7aS,13bS,13cR,15aS)-(9CI) (CA INDEX NAME)

90866-61-8 HCAPLUS
4H-3,15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one,
2,3,5b,67,7a,8,13,13b,13c,14;15-dodecahydro-5b-hydroxy-2,2,13b,13ctetramethyl-9-(3-methyl-2-butenyl)-, (3R,5bS,7aS,13bS,13cR,15aS)- (9CI)
(CA INDEX NAME)

L9 ANSWER 10 OF 61 HCAPLUS COPYRIGHT 2007 ACS ON STN ED Entered STN: 16 Jun 2003 ACCESSION NUMBER: 2003:459324 HCAPLUS DOCUMENT NUMBER: 100:106640 Fungal metabolite screening: dat

140:106640
Fungal metabolite screening: database of 474
mycotowins and fungal metabolites for dereplication by
standardized liquid chromatography-UV-mass
spectrometry methodology
Nielsen, Kristian Fog; Smedsgaard, Jorn
BioCentrum-UTU, Mycology Group, Technical University
of Denmark, Lyngby, DK-2800, Den.
Journal of Chromatography, A (2003), 1002(1-2),
111-136
CODEN: JCRAEY; ISSN: 0021-9673
Elsevier Science B.V.
Journal

AUTHOR(S): CORPORATE SOURCE:

SOURCE:

PUBLISHER:

CODEN: JCRAEY; ISSN: 0021-9673

PUBLISHER: Elsevier Science B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB A standarized LC-UV-MS micro-scale method for screening of fungal metabolites and mycotoxins in culture exts. is presented. The paper includes data for detection and dereplication of >400 fungal metabolites to facilitate detection and identification when stds. are not available. The data also shows the types of components that can be analyzed by pos. electrospray (ESI)+ mass spectrometry (MS) along with common fragments and adducts of these, as well as giving suggestions on whether UV or ESI+MS methods should be used. Examples of dereplication of penitrems and macro-cyclic trichothecenes, and detection of several novel compds. are shown. This was done by UV spectroscopy combined with accurate mass determination of adduct and fragment ions obtained by high-resolution orthogonal time-of-flight MS.

IT 63722-91-8, Paspalinin 70553-75-2, Aflatrem

RL: AMT (Analyte): PRP (Properties): AMST (Analytical study) (database of 474 mycotoxins and fungal metabolites for dereplication by standardized liquid chromatog--UV-mass spectrometry methodol.)

RN 63722-91-8 HCAPLUS

CM 4H-3, 158-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one, 2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-2,2,13b,13c-tetramethyl-, (3R,5bS,7aS,13bS,13cR,15aS)- (9CI) (CA INDEX NAME)

70553-75-2 HCAPLUS

H-3, 15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one, 9-(1,1-dimethyl-2-propenyl)-2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-2,2,13b,13c-tetramethyl-, (3R,5b5,7a5,13b5,13cR,15a5)- (9CI) (CA INDEX NAME)

ANSWER 9 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN . (Continued)

90866-61-8 HCAPLUS
4H-3, 15a-Epoty-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one,
2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-2,2,13b,13c-tetramethyl-9-(3-methyl-2-butenyl)-, (3R,5b5,7a5,13b5,13cR,15a5)- (9CI)
(CA INDEX NAME)

REFERENCE COUNT:

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 10 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

REFERENCE COUNT:

THERE ARE 71 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 11 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN
ED Entered STN: 19 Feb 2002
ACCESSION NUMBER: 2002:127616 HCAPLUS
DOCUMENT NUMBER: 136:305407
TITLE: Toxigenic fungi in human environment
AUTHOR(S): Krikstaponis, A.; Stakeniene, J.; Lugauskas, A.
CORRORATE SOURCE: Institute of Botany, Vilnius, LT-2021, Lithuania
SOURCE: Biologia (2001), (4), 10-12
CODEN: BOLOEB; ISSN: 1392-0146
Lietuvos Mokslu Akademijos Leidykla
LOCUMENT TYPE: Journal
LANGUAGE: Journal
LANGUAGE: Journal
LANGUAGE: Holish
AB Fungal species compns- on vegetable-born food products and in the air and dust of dwellings were studied in 1996-2000. Seven food selling-storage places and 14 residences were investigated, 179 samples of 94 names of food products as well as 50 air and 119 dust samples were surveyed.
Ability of 333 fungal isolates to produce secondary metabolites grown on Czapek - yeast extract and yeast extract - sucrose agar media was tested,

ΙT

Strains were regarded as active producers of secondary metabolities.
63722-91-0, Paspalinin 70553-75-2, Aflatem
RL: FOL (Pollutant): OCCU (Occurrence)
(toxigenic fungi in human environment)
63722-91-0 HCAPLUS
4H-3,15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one,
2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-2,2,13b,13c-tetramethyl-, (3R,5bS,7aS,13bS,13cR,15aS)- (9CI) (CA INDEX NAME)

70553-75-2 HCAPLUS
4H-3, 15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one,
9-(1,1-dimethyl-2-propenyl)-2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-2,2,13b,13c-tetramethyl-, (3R,5b5,7as,13b5,13cR,15a8)- (9CI)
(CA INDEX NAME)

L9 ANSWER 12 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN ED Entered STN: 13 Jan 2000 ACCESSION NUMBER: 2000:28384 HCAPLUS DOCUMENT NUMBER: 132:307469

132:307469
Mycoflora and mycotoxins of Brazilian cashew kernels Freire, Francisco C. O.; Kozakiewicz, Zofia; Paterson, R. Russell M. Centro Nacional de Pesquisa de Agroindustria Tropical, Ceara, Brazil
Mycopathologia (1999), 145(2), 95-103
CODEN: MYCPAR; ISSN: 0301-486X
Kluwer Academic Publishers
Journal

AUTHOR (S):

CORPORATE SOURCE:

SOURCE:

PUBLI SHER:

DOCUMENT TYPE: LANGUAGE:

AISHER: Kluwer Academic Publishers
Journal
JUNGE: Boglish
Kernel samples of common and dwarf Brazilian cashew nuts were highly
contaminated with field and storage fungi in comparison to healthy ones.
In general, dwarf cashews were more contaminated than common. A total of
37 fungal species were identified. Aspergillus niger was the dominant
species with more colonies being isolated from dwarf kernels. A. flavus
was the next most frequently isolated species. Penicillium
brevicompactum, and P. glabrum were the most frequently isolated
penicillia, with higher contamination recorded from dwarf kernels.
Chaetomium globosum was recorded at a high level. Nine species were
recorded from cashew kernels for the 1st time. Multimycotoxin anal. by
ILC and HPLC were pos. for mycotoxins and other secondary metabolites
particularly from the infected samples. HPLC was only carried out on
dwarf cashews. Aflatoxins were not detected by quant. high performance
thin layer chromatog.
70553-75-2, Aflatrem
AL: POL (Pollutant), OCCU (Occurrence)
(mycoflora and mycotoxins of Brazilian cashew kernels)
70553-75-2 HCAPLUS
HH-3,15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one,
9-(1,1-dimethyl-2-propenyl)-2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro5b-hydroxy-2,2,13b,13c-tetramethyl-, (3R,5b5,7a5,13b5,13cR,15a5)- (9CI)

20

REFERENCE COUNT:

THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 11 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

REFERENCE COUNT

THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 13 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN ED Entered STN: 23 Jul 1999 ACCESSION NUMBER: 1999:450819 HCAPLUS DOCUMENT NUMBER: 131:97619

Method for reducing intraocular pressure in the mammalian eye by administration of potassium channel

blockers Adorante, Joseph S., Woldemussie, Elizabeth; Ruiz, Guadalupe; Kopper, Kara; Moore, Alison M. Allergan, USA U.S., 5 pp. CODEN: USXXAM INVENTOR(S):

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE:

LANGUAGE: English 1

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE PATENT NO. KIND DATE APPLICATION NO. DATE

US 5925342 A 19990720 US 1997-891623 19970709

PRIORITY APPLM. INFO.:

AB Pharmaceutical compns. and a method are disclosed for treating glaucoma and/or ocular hypertension in the mammalian eye by administering to the mammalian eye the pharmaceutical composition of the invention which contains.

contains,
as the active ingredient, one or more compds. having potassium channel blocking activity. Examples of potassium channel blockers utilized in the pharmaceutical composition and method of treatment are quinine, tremogenic indole alkaloids, such as Penitrem A and paspalicine, and insect toxins such as charybdotoxin and iberiotoxin. Quinine was tested in rabbit eyes and in bovine nonpigmented ciliary epithelial cells.

Il 1024-55-8, Paspalicine
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(as potassium channel blocker; potassium channel blockers for reducing intraocular pressure in mammalian eye)
RN 11024-55-8 HCAPLUS

CH 4H-3,15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one, 2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-2,2,13b,13c-tetramethyl-, (3R,5bR,7as,13bs,13cs,15as)- (9CI) (CA INDEX NAME)

REFERENCE COUNT:

THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ACCESSION NUMBER: 1998:247492 HCAPLUS
DOCUMENT NUMBER: 129:14059

TITLE: Liquid chromatographic determination of major secondary metabolites produced by Aspergillus species from section Flavi
Sobolev, Victor S.; Horn, Bruce W.; Dorner, Joe W.;
Cole, Richard J.
Agric., Passon, GA, 31742, USA
SOURCE: Agric., Dawson, GA, 31742, USA
SOURCE: JOURNAI of AOAC International (1998), 81(1), 57-60
CODEN: JAINEE; ISSN: 1060-3271

PUBLISHER: AOAC International, Inc.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB A liquid chromatog. (IC) method was developed for simultaneous determination of major secondary metabolites - including cyclopiazonic acid (CPA),
O-methylsterigmatocystin (OMST), and the versicolarins - produced by Aspergillus species from section Flavi (A. flavus, A. parasiticus, A. tamarii, and A. cselatus) on a liquid medium. Metabolites were extracted with

tamarii, and A. caelatus) on a liquid medium. Metabolites were extracted chloroform and quantitated without prior cleanup by means of normal-phase ion-pair partition LC on silica gel with a mobile phase of n-heptane-2-propanol-n-butanol-water-tetrabutylammonium hydroxide (2560+900+230+32 + 8, volume/volume). Recoveries of CPA and OMST from fungal cultures spiked at 10 µg/mL were 98.90±3.27 and 95.92±5.278 (n=5), resp. At spike levels of 100 µg/mL, recoveries were 98.89±3.87 and 97.65±4.32* (n=5), resp. Limits of detection for pure stds. were 0.25 µg/mL for CPA (at 280 nm) and 0.30 µg/mL for DMST (at 310 nm). UV detector responses to CPA and OMST were linear to about 0.5 and 3.5 µg/mlscino, resp.
70553-75-2, Aflatrem
RL: ANT (Mnalyte): ANST (Analytical study)
(liquid chromatog. determination of major secondary metabolites produced

Aspergillus species from section Flavi)
70553-75-2 HCAPLUS
4H-3,15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one,
9-(1,1-dimethyl-2-propenyl)-2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-2,2,13b,13c-tetramethyl-, (3R,5b5,7as,13b5,13cR,15aS)- (9CI)
(CA INDEX NAME)

L9 ANSWER 15 OF 61 HCAPLUS COPYRIGHT 2007 ACS ON STN
ED Entered STN: 26 Dec 1996
ACCESSION NUMBER: 1996:756504 HCAPLUS
DOCUMENT NUMBER: 126:26785
TITLE:

AUTHOR(S):

126:26785

Effects of the K+ channel blockers paspalitrem-C and paxilline on mammalian smooth muscle DeFarias, Fernando P., Carvalho, Marcia F., Lee, Seok H.; Kaczorowski, Gregory J.; Suarez-Kurtz, Guilherme Dep. Bioquim. Med., Univ. Fed. Rio de Janeiro, RJ-21941-590, Brazil European Journal of Pharmacology (1996), 314 (1/2), 123-128

CODEN: RIDMAN. NOW. CORPORATE SOURCE:

SOURCE:

CODEN: EJPHAZ: ISSN: 0014-2999

PUBLI SHER:

Elsevier Journal DOCUMENT TYPE: LANGUAGE:

ISHER: Elsewier

MEXIT TYPE: Journal

WAGE: English

The tremorgenic alkaloids, paxilline and paspalitrem-C (0.1-10 µM),
increased the spontangous contractility of guinea-pig and rat urinary
bladder, and rat duodenum, and induced tension in guinea-pig trachea.
These effects are ascribed to blockade of high-conductance, Ca2+-activated

K: (RKCa) channels. Paxilline potentiated the charybdotoxin-induced

Stimulation of guinea-pig detrusor muscle; this is consistent with the
alkaloid's ability to allosterically enhance the binding of charybdotoxin
to smooth muscle membranes (Knaus et al., 1941. Paspalitrem-C and
paxilline did not affect the myogenic activity of isolated portal vein
from guinea-pig, which is insensitive to charybdotoxin, or of that from
rat which is stimulated by charybdotoxin. Paxilline and paspalitrem-C
also differed from charybdotoxin in that the alkaloids did not
consistently elicit tension in guinea-pig aortic rings. These
discrepancies are attributed to differences in relative potency, sites
and/or mechanisms of action of the indole alkaloids vs. peptidyl blockers
of the BKca channel.
90866-61-8, Paspalitrem-C
RL: BAC (Bological activity or effector, except adverse); BSU (Biological
study, unclassified); BIOL (Biological study)
(effects of K: channel blockers paspalitrem-C and paxilline on
mammalian amooth muscle)
90866-61-8 HCAPLUS
H-3, 15a-Epoxy-1-benzosepino(6', 7': 6, 7]indeno[1, 2-b] indol-4-one,
2, 3, 5b, 6, 7, 7a, 8, 13, 13b, 13c, 14, 15-dodecahydro-5-b-hydroxy-2, 2, 13b, 13ctetramethyl-9-(3-methyl-2-butenyl)-, (3R, 5bs, 7as, 13bs, 13cR, 15as)- (9CI)
(CA INDEX NAME)

ANSWER 14 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

REFERENCE COUNT:

THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

	v 1996
ACCESSION NUMBER:	
DOCUMENT NUMBER:	126:1219
TITLE:	Method for reducing intraocular pressure in the
	mammalian eye by administration of potassium channel
	blockers
INVENTOR(S):	Adorante, Joseph S.; Woldemussie, Elizabeth; Ruiz,
INVENTOR (5).	Guadalupe
PATENT ASSIGNEE(S):	Allergan, USA
SOURCE:	U.S., 5 pp.
SOURCE:	
	CODEN: USXXAM
DOCUMENT TYPE:	Patent
LANGUAGE:	English
FAMILY ACC. NUM. COUNT:	1
PATENT INFORMATION:	
PATENT NO.	KIND DATE APPLICATION NO. DATE
US 5573758	A 19961112 US 1995-431170 19950428
CA 2219280	A1 19961031 CA 1996-2219280 19960416
WO 9633719	A1 19961031 WO 1996-US5241 19960416
W: AU, CA, JP	
	DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
AU 9655488	A 19961118 AU 1996-55488 19960416
AU 703241	
EP 825863	B2 19990325 A1 19980304 EP 1996-912798 19960416
EP -825863	B1 20021009
	DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
	DE, DR, ES, FR, GB, GR, II, EI, EU, NE, SE, MC, PI,
IE, FI	
JP 11504330	T 19990420 JP 1996-532585 19960416
EP 1243270	A1 20020925 EP 2002-9867 19960416
EP 1243270	B1 20031008
	DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, FI	
AT 225658	T 20021015 AT 1996-912798 19960416
ES 2182973 /	T3 20030316 ES 1996-912798 19960416
AT 251458	T 20031015 AT 2002-9867 19960416
ES 2204879	T3 20040501 ES 2002-9867 19960416
PRIORITY APPLN. INFO.:	US 1995-431170 A 19950428

L9 ANSWER 16 OF 61 HCAPLUS COPYRIGHT 2007 ACS ON STN ED Entered STN: 27 Nov 1996 ACCESSION NUMBER: 1996:701991 HCAPLUS

TE, FI

AT 225658 T 20021015 AT 1996-912798 19960416
ES 2182973 / T3 20030316 ES 1996-912798 19960416
AT 2251458 T 20031015 AT 2002-9867 19960416
ES 2204879 T3 20040501 ES 2002-9867 19960416
RITY APPLN. INFO: US 1995-431170 A 19950428
EF 1996-912798 A 3 19960416
WO 1996-US5241 W 19960416
Pharmaceutical compns. and a method are disclosed for treating glaucoma and/or occular hypertension in the mammalian eye by administering to the mammalian eye the pharmaceutical composition of the invention which ains.

PRIORITY APPLN. INFO.:

ains,
as the active ingredient, one or more compds. having potassium channel
blocking activity. Examples of potassium channel blockers utilized in the
pharmaceutical composition are quinine, tremogenic inclode alkaloids, such as
Penitrem A and paspalicine, and insect toxins such as charybdotoxin and
iberiotoxin. In the in vivo studies normotensive rabbits were injected
intracamerally with 1 mM quinine, resulting in IOP decrease by 7 mmHg and
IOP remained depressed for 24 h.
11024-55-8, Paspalicine
RL: RAC (Biological activity or effector, except adverse); BSU (Biological
study, unclassified); TRU (Therapeutic use); BIOL (Biological study); USES
(Uses)
(potassium channel blockers for radial in the study in the standard of the

(Uses)
(potassium channel blockers for reducing intraocular pressure)
11024-55-8 HCAPLUS
4H-3,15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one,
2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-2,2,13b,13c-tetramethyl-,

ANSWER 16 OF 61 HCAPLUS COPYRIGHT 2007 ACS ON STN (3R,5bR,7as,13bs,13cs,15as) - (9CI) (CA INDEX NAME)

ANSWER 17 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

L9 ANSWER 17 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN ED Entered STN: 19 May 1995 ACCESSION NUMBER: 1995:560774 HCAPLUS DOCUMENT NUMBER: 123:56337

SOURCE:

TITLE:

AUTHOR(S):

COPEN: JCDBA: JC CORPORATE SOURCE:

PUBLISHER: DOCUMENT TYPE: LANGUAGE:

1131-6 CODEN: JCPRB4: ISSN: 0300-922X Royal Society of Chemistry Journal English CASREACT 123:56337 OTHER SOURCE(S):

$$\begin{array}{c|c} \text{Br} & & \\ & & \\ N \\ N \\ H \\ I \end{array} \quad \begin{array}{c} \text{MeO}_2\text{CCH}_2 \\ \\ \text{CH}_2\text{Ph} \\ I \end{array} \quad I$$

AB The 7-bromocyclopenta[b]indole I has been converted into the hydroxybutenyl derivs. and a tetrahydrofuranylidene derivative in model studies towards the elaboration of paspalitrem and lolitrem type side chains. In a parallel approach, the cyclopentapyrrole II was converted into the fused e-pyrone III which acted as a pyrrole-2,3-quinodimethane, and undervent Diels-Alder reaction to give, after loss of carbon dioxide, the cyclopentaindoles, e.g. IV.

IT 6376-58-9P, Paspalitrem B
RI: PNU (Preparation, unclassified): PREP (Preparation)
(preparation of cyclopentaindoles in model studies towards the tremorgenic mycotoxins)

orgenic mycotoxins) 63764-58-9 HCAPLUS 4H-3.15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one, 2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-10-[(1E)-3-hydroxy-3-methyl-1-butenyl]-2,2,13b,13c-tetramethyl-, (3R,5bS,7aS,13bS,13cR,15aS)-(SCI) (CA INDEX NAME)

L9 ANSWER 18 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN ED Entered STN: 22 Apr 1995 ACCESSION NUMBER: 1995:505350 HCAPLUS DOCUMENT NUMBER: 122:286198 Antiinsecte: ...

Antinsectan alkaloids: shearinines A-C and a new paxilline derivative from the ascostromata of Eupenicillium shearii Belofsky, Gilbert N.; Gloer, James B.; Wicklow, Donald T.; Dowd, Patrick F.

Dep. Chemistry, Univ. Iowa, Iowa City, IA, 52242, USA Tetrahedron (1995), 51(14), 3959-68
CODEN: TETRAB; ISSN: 0040-4020
Elsewier
Journal AUTHOR(S):

CORPORATE SOURCE: SOURCE:

PUBLISHER: DOCUMENT TYPE: LANGUAGE: GI Journal English

Four new antiinsectan indole alkaloids were isolated from organic exts. of the sclerotioid ascostromata of E. shearii (NRRI 3324). These exts. also afforded paxilline and 4 known, paxilline-related metabolites. The structures of the new compds. were determined through anal. of 1H NMR, 13C AB

Structures of the new Compds, were determined through shall of IH NMM, ISC BMQC, and BMBC expts. The 9 compds, were isolated from fractions displaying activity in dietary assays against the corn earworm Helicovepa zea and the dried-fruit beetle Carpophilus hemipterus, and most of the compds. show potent activity in these assays. Shearinine A (I) also exhibited activity in a topical assay against H. zea, and shearinine B (II) caused significant mortality in a leaf disk assay against the fall armysorm Spodoptera frugiperda. 63722-91-8, Paspalinine RL: BAC (Biological activity or effector, except adverse); BOC (Biological study, unclassified); BIOL (Biological study); OCCU (Occurrence) (paxilline derivs. from the ascostromata of Eupenicillium shearii) 63722-91-8 HCAPLUS

ANSWER 18 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued) 4H-3,15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one, 2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-2,2,13b,13c-tetramethyl-, (3R,5bs,7as,13bs,13cR,15as)- (9CI) (CA INDEX NAME)

L9 ANSWER 20 OF 61 HCAPLUS COPYRIGHT 2007 ACS ON STN ED Entered STN: 11 Jun 1994 ACCESSION NUMBER: 1994:293633 HCAPLUS DOCUMENT NUMBER: 120:293633

DOCUMENT NUMBER: TITLE:

120:293633

New paspalinine derivatives with antiinsectan activity from the sclerotia of Aspergillus nomius Staub, Gail M., Gloer, Katherine B., Gloer, James B. Dep. Chem., Univ. Iowa, Iowa City, IA, 52242, USA Tetrahedron Letters (1993), 34(16), 2569-72 CODEN: TELEAY; ISSN: 0040-4039 Journal English AUTHOR(S): CORPORATE SOURCE: SOURCE:

DOCUMENT TYPE: LANGUAGE: GI

14-Hydroxypaspalinine (I) and 14-(N,N-dimethyl-L-valyloxy)paspalinine (II) were isolated from the sclerotia of Aspergillus nomius, and identified by anal. of 2D NMR data. Both compds. caused 90% reduction in weight gain in

against the corn earworm Helicoverpa zea at the 100 ppm (dry weight) dietary level. Paspalinine caused no effect at this concentration 151341-77-4 151341-78-5
RL: PROC (Process)
(structure and isolation of, from Aspergillus nomius sclerotia, insecticidal activity in relation to) 151341-77-4 RCAPLUS 4H-3,158-8poxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one, 2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-5b,6-dihydroxy-2,2,13b,13c-tetramethyl-; [3R-(3a,5ba,6a,7a,8,13ba,13c,bet a.,15aa)]- (9CI) (CA INDEX NAME)

151341-78-5 HCAPLUS L-Valine, N,N-dimethyl-, 3,4,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-2,2,13b,13c-tetramethyl-4-oxo-2H-3,15a-epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-6-yl ester, {3R-(3a,5ba,6a,7aB,13ba,13cB,15ae)} L9 ANSWER 19 OF 61 HCAPLUS COPYRIGHT 2007 ACS ON STN ED Entered STN: 07 Mar 1995 ACCESSION NUMBER: 1995:395485 HCAPLUS DOCUMENT NUMBER: 122:2290741 TITLE: Partial -----

AUTHOR(S):

122:290141 uctures of the fungal toxin aflatrem, methyl-substituted 6.8-dioxabicyclo[3.2.1]octan-2-ones having anticonvulsant activity
Tinno-Wooldridge, Luzvininda V.; Hsiang, Bonnie C. H.;
Latifi, Tammy N.; Ferrendelli, James A.; Covey,
Douglas F.
Dep. Mol. Biol. Pharmacology, Washington Univ. School
Medicine, St. Louis, MO, 63110, USA
Bioorganic & Medicinal Chemistry Letters (1995), 5(3),
265-70
CODEN: BMCLES; ISSN: 0960-894X
Elsevier CORPORATE SOURCE: SOURCE:

PUBLISHER:

DOCUMENT TYPE: LANGUAGE:

OTHER SOURCE(S):

CODEN: EMCLER: ISSN: 0960-894X

ISHER: Elsevier
MENT TYPE: Journal

MUGE: English

RS SOURCE(S): CASHEACT 122:290741

4,7,7-Trinethyl-6,8-diowabicyclo(3,2.1]octan-2-one was found to be an
effective anticonvulsant (EDSO = 131 mg/kg) against pentylenetetrazoleinduced seizures in mice. Enantioselectively was observed in the actions of
the (+)- and (-)-enantiomers as anticonvulsants and as displacers of
the (+)- and (-)-enantiomers as anticonvulsants and as displacers of
(-)-enantiomer was slightly more potent in both biol. assays.

(-)-Enantiomer was slightly more potent in both biol. assays.

RL: BAC (Biological activity) or effector, except adverse); BSU (Biological
study, Unclassified); SPN (Synthetic preparation); BIOL (Biological
study); PREP (Brogration)
((GARBAICY-LOCATIONS)) (Synthetic preparation); BIOL (Biological
study); PREP (Brogration); BIOL (Biological
study); B

ANSWER 20 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN (9CI) (CA INDEX NAME) (Continued)

ANSWER 21 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN ED Entered STN: 11 Jun 1994 ACCESSION NUMBER: 1994:291795 HCAPLUS

DOCUMENT NUMBER: 120:291795

Tremorganic Indole Alkaloids Potently Inhibit Smooth Muscle High-Conductance Calcium-Activated Potassium TITLE:

Channels Knaus, Hans-Guenther; McManus, Owen B.; Lee, Seok H.; Schmalhofer, William A.; Garcia-Calvo, Margarita; Helms, Lian M. H.; Sanchez, Manuel; Giangiacomo, Kathleen; Reuben, John P.; et al. Department of Membrane Biochemistry and Biophysics, Merck Research Laboratories, Rahway, NJ, 07065, USA Biochemistry (1994), 33(19), 5819-28 CODEN: BICHAW; ISSN: 0006-2960 AUTHOR(S):

CORPORATE SOURCE:

SOURCE:

DOCUMENT TYPE:

CODEN: BICHAW; ISSN: 0006-2960

4ENT TYPE: Journal

JACE: English

Tremorgenic indole alkaloids produce neurol. disorders (e.g., staggers syndromes) in ruminants. The mode of action of these fungal mycotomins is not understood but may be related to their known effects on neurotransmitter release. To determine whether these effects could be due

not understood but may be related to their known effects on neurotransmitter release. To determine whether these effects could be due inhibition of X+ channels, the interaction of various indole diterpenes with high-conductance Ca2+-activated K+ (maxi-K) channels was examined Paspalitrem A, paspalitrem C, aflatrem, penitrem A, and paspalinine inhibit binding of [1251]charytodotoxin (ChTX) to maxi-K channels in bovine aortic smooth muscle sarcolemmal membranes. In contrast, three structurally related compds., paxilline, vercuculogen, and paspalicine, enhanced toxin binding. As predicted from the binding studies, covalent incorporation of [1251]chTX into the 31-kDa subunit of the maxi-K channel was blocked by compds. that inhibit [1251]chTX binding and enhanced by compds. that stimulate [1251]chTX binding. Modulation of [1251]chTX binding was due to allosteric mechanisms. Despite their different effects on binding of [1251]chTX to maxi-K channels, all compds. potently inhibited maxi-K channels in electrophysiol. expts. Other types of voltage-dependent or Ca2+-activated K+ channels examined were not affected. Chemical modifications of paxilline indicate a defined structure-activity relationship for channel inhibition. Paspalicine, a dehydroxy nanlog of paspalinine lacking tremorgenic activity, also potently blocked maxi-K channels. Taken together, these data suggest that indole diterpens are the most potent nonpeptidyl inhibitors of maxi-K channels identified to date. Some of their pharmacol. properties could be explained by inhibition of maxi-K channels, although tremorgenicity may be unrelated to channel block.

11024-55-8, Paspalicine 63722-90-7, Paspalitrem A 63722-918, Paspalinine 70553-75-2, Aflatrem 90866-61-8, Paspalitrem C R. BIOI, (Biological study) (calcium-activated potassium channels of aorta smooth response to) 11024-55-8 HCAPLUS (Biological study) (calcium-activated potassium channels of aorta smooth response to) 11024-55-8 HCAPLUS (Biological study) (calcium-activated potassium channels of aorta sm

ANSWER 21 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

90866-61-8 HCAPLUS

H-3. 15a-Ropony-1-benzoxepino(6',7':6,7]indeno[1,2-b]indol-4-one, 2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-2,2,13b,13c-tetramethyl-9-(3-methyl-2-butenyl)-, (3R,5b5,7a5,13b5,13cR,15a5)- (9CI) (CA INDEX NAME)

ANSWER 21 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

63722-90-7 HCAPLUS

43/142-750-7 BLAKUS 4H-3, 15a-Fgpoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one, 2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-2,2,13b,13c-tetramethyl-10-(3-methyl-2-butenyl)-, (3R,5b5,7a5,13b5,13cA,15a5)- (9CI)

63722-91-8 HCAPLUS

70553~75-2 HCAPLUS

NUMBER 13-13-E MLARUS
4H-3,15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one,
9-(1,1-dimethyl-2-propenyl)-2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-2,2,13b,13c-tetramethyl-, (3R,5bs,7as,13bs,13cR,15as)- (CA INDEX NAME)

ANSWER 22 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN Entered STN: 19 Mar 1994 SSION NUMBER: 1994:127325 HCAPLUS MENT NUMBER: 120:127325

ED Entered STN:
ACCESSION NUMBER:
DOCUMENT NUMBER:
TITLE:
AUTHOR(S):

Tremorgenic mycotoxins having indoloditerpene moiety

CORPORATE SOURCE: SOURCE:

DOCUMENT TYPE:

MENT NUMBER: 120:127325
E: Tremorgenic mycotoxins having indoloditerpene moiety

OR(5): Nozawa, Koohei
Pac. Phare. Sci., Hoshi Univ., Tokyo, 142, Japan

MCSE: Mycotoxins (1993), 37, 17-21

CODEN: MAIKOR; ISSN: 0285-1466

MENT TYPE: Journal

Japanese
Indoloditerpene moiety-containing tremorgenic mycotoxins were reviewed. The mass fragment of paxilline an its derivs. isolated from Emericella such as emindole SB paspaline, dehydroxypaxilline, and paxilline acetate were disclosed. The structures and biosynthetic pathways of other tremorgens isolated from Aspergillus flavus and Penicillium crustosum were also disclosed. These tremorgens are biosynthesized from tryptophan and geranylgeraniol with 3 types of cyclization, i.e., the nominine-, the emindel, and the paspaline-type. Emeniveol recently isolated from E. nivea may be categorized into the paspaline-type with addnl. reactions to produce penitrem, janthitrem, and lolitrem type compds. 63722-91-9, Paspalinine TOS53-75-2, Aflatrem

RL: BIOL (Biological study)
(tremorgenic mycotoxin, indoloditerpene moiety-containing) 63722-91-9 HCAPLUS
4H-3,15a-8poxy-1-benzowepino[6',7':6,7]indeno[1,2-b]indol-4-one, 2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-2,2,13b,13c-tetramethyl-, (3R,5bs,7as,13bs,13cR,15as)- (9CI) (CA INDEX NAME)

70553-75-2 HCAPLUS

Hen. 15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one,
9-(1,1-dimethyl-2-propenyl)-2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-2,2,13b,13c-tetramethyl-, (3R,5b5,7aS,13b5,13cR,15aS)- (9CI)
(CA INDEX NAME)

ANSWER 22 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

ANSWER 23 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN

151341-77-4 HCAPLUS 4H-3, 15a-Bpoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one, 2,3.5b,6,7,7a,8,13.13b,13c,14,15-dodecahydro-5b,6-dihydroxy-2,2,13b,13c-tetramethyl-, (3R-(3a,5ba,6a,7aB,13ba,13c,bet a.,15ae])- (9C) (CA INDEX NAME)

(Continued)

151341-78-5 HCAPLUS 151341-78-5 HCAPLUS
L-Valine, N, N-dimethyl-, 3,4,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-2,2,13b,13c-tetramethyl-4-oxo-2H-3,15a-epoxy-1-benzoxepino(6',7':6,7]indeno(1,2-b]indol-6-yl ester, [3R-(3a,5b,6x,7a,B),13bc,13ac)](9CI) (CA INDEX NAME)

L9 ANSWER 23 OF 61 HCAPLUS COPYRIGHT 2007 ACS ON STN ED Entered STN: 25 Dec 1993 ACCESSION NUMBER: 1993:664674 HCAPLUS DOCUMENT NUMBER: 119:264674

TITLE: INVENTOR(S):

119:264674
Indole antiinsectan Aspergillus metabolites.
Laakso, Jodi A.; Tepaske, Mark R.; Dowd, Patrick F.;
Gloer, James B.; Wicklow, Donald T.; Staub, Gail M.
United States Dept. of Agriculture, USA; University of
Iowa Research Foundation; Biotechnology Research and
Development Corp.
U.S., 12 pp. Cont.-in-part of U.S. 5,130,326.
CODDEN: USXXXM PATENT ASSIGNEE(S):

SOURCE:

DOCUMENT TYPE: Patent English LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5227396	A	19930713	US 1992-875360	19920429
US 5130326	A	19920714	US 1991-732786	19910719
US 5300495	Α	19940405	US 1993-8616	19930122
WO 9322318	A1	19931111	WO 1993-US1834	19930226
W: AU, CA				
RW: AT, BE, CH,	DE, DE	, ES, FR,	GB, GR, IE, IT, LU, MC,	NL, PT, SE
AU 9337834	A	19931129	AU 1993-37834	19930226
PRIORITY APPLN. INFO.:			US 1991-732786 A	12 19910719

INTY APPLN. INFO.:

US 1992-875360 A2 19910719
US 1992-875360 A3 19920429
US 1992-875360 A3 19920429
US 1992-875360 A3 19920429
Sulpinine C, secopenitrem B and 10-oxo-11,33-dihydropenitrem B were isolated from the sclerotia of A. sulphureus. Aflatrem B was isolated from the sclerotia of A. flavus, and 14-hydroxypaspalinine and 14-(N).N-dimethylvalyloxy) paspalinine from the sclerotia A. nomius. The compds. control Coleoptera and Lepidoptera. Addition of 200 ppm aflatrem B to the diet of corn earvorm (Helicoverpa zea) larvae, caused 57.2% weight reduction after 1 wk.

144446-23-1, Aflatrem B 151341-77-4 151341-78-5
RL: AGR (Agricultural use): BAC (Biological activity or effector, except adverse): BSU (Biological study); unclassified): BIOL (Biological study); (insecticide, from Asperdillus)

USES (Uses) (insecticide, from Aspergillus) (insecticide, from Aspergillus) 144446-23-1 HCAPLUS 4H-3,15a-Epoxy-1-bentzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one, 10-(1,1-dimethyl-2-propenyl)-2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-2,2,13b,13c-tetramethyl-, (3a,5ba,7aβ,13b.alph a.,13cβ,15aα)-(+)- (9CI) (CA INDEX NAME)

L9 ANSWER 24 OF 61 HCAPLUS COPYRIGHT 2007 ACS ON STN ED Entered STN: 30 Mar 1993 ACCESSION NUMBER: 1993:118970 HCAPLUS DOCUMENT NUMBER: 118:118970

DOCUMENT NUMBER: TITLE: 118:118970
Sulpinines, secopenitrem B and aflatrem B insecticidal metabolites from fungi
Laakso, Jodi A: TePaske, Mark R.; Dowd, Patrick F.;
Gloer, James B.; Wicklow, Donald T.
United States Dept. of Agriculture, USA; University of Iowa Research Foundation; Biotechnology Research and Development Corp.
U.S., 9 pp.
CODEN: USXXAM
Patent

INVENTOR(S):

PATENT ASSIGNEE(S):

SOURCE:

DOCUMENT TYPE: Patent

English 2

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

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PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5130326 US 5227396 WO 9301721 W: AU, CA	A A A1	19920714 19930713 19930204	US 1991-732786 US 1992-875360 WO 1992-US5956	19910719 19920429 19920716
	DE, DK, A A	ES, FR, 19930223 19940405	GB, GR, IT, LU, MC, NL, AU 1992-23820 US 1993-8616 US 1991-732786 US 1992-875360 WO 1992-US5956	SE 19920716 19930122 A2 19910719 A3 19920429 A 19920716

The indole derivs. sulpinines A, B, and C and secopenitrem B were isolated from Aspergillus sulphureus, and the new aflatrem B (I) from A. flavus. The above compds. are insecticides, especially against Coleoptera and Lepidoptera. A 57.2% reduction in weight gain of Helicovespa zea, relative

controls, was observed after 1 wk, when 200 ppm I was incorporated into the

diet. 14446-23-1 Aflatrem B RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study); USES (90e) IT

USES (Uses)
(as insecticide, from Aspergillus flavus)

144446-23-1 HCAPLUS

4H-3,15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one,
10-(1,1-dimethyl-2-propenyl)-2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-2,2,13b,13c-tetramethyl-, (3a,5ba,7aB,13b,alph

ANSWER 24 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN a.,13c β ,15a α)-(+)- (9CI) (CA INDEX NAME) (Continued)

L9 ANSWER 25 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

L9 ANSWER 25 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN
ED Entered STN: 03 Feb 1993
ACCESSION NUMBER: 1993:34196 HCAPLUS
DOCUMENT NUMBER: 118:34196
Tremorgenic mycotoxins, paspalitrem A and C, from a tropical Phomopsis
Bills, Gerald F., Giacobbe, Robert A.; Lee, Seok H.;
Pelaez, Fernandor Tkacz, Jan S.
ODEN: Pelaez, Fernandor Tkacz, Jan S.
ODEN: Basic Microbiol., Merck Res. Lab., Rahway, NJ, 07065, USA
Mycological Research (1992), 96(11), 977-83
CODEN: MYCHER; ISSN: 0953-7562
DOCUMENT TYPE: Journal
LANGUAGE: English
AB An endophytic Phomopsis species from living bark of Cavendishia pubescens in Colombia produced paspalitrem A and paspalitrem C in batch fermans. These compds, previously were known only from sclerotia of Claviceps paspali as tremorgenic mycotoxins causing neurol. disorders of livestock. A potential ecol. role of these metabolites in regard to endophytism of the woody host is considered.

IT 63722-90-7, Paspalitrem A 90866-61-8, Paspalitrem C
RL: BIOL (Biological study)
(of tropical Phomopsis, tremor from)
RN 63722-90-7 HCAPLUS
CN 4H-3, 15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one, 2.3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-2,2,13b,13c-tetramethyl-10-(3-methyl-2-butenyl)-, (3R,5b5,7a5,13b5,13cR,15a5)- (9CI)

90866-61-8 HCAPLUS
4H-3,15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one,
2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-2,2,13b,13c-tetramethyl-9-(3-methyl-2-butenyl)-, (3R,5b5,7a5,13b5,13cR,15a5)- (9
(CA INDEX NAME)

L9 ANSWER 26 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN
ED Entered STN: 13 Dec 1992
ACCESSION NUMBER: 1992:629702 HCAPLUS
DOCUMENT NUMBER: 117:229702 HCAPLUS
ACTIVE: Aflavarin and B-aflatrem: new anti-insectan metabolites from the sclerotia of Aspergillus flavus
TPASKE, Mark R., Gloer, James B., Vicklow, Donald T.,
Dowd, Patrick F.
Dowd, Patrick F.
Dovd, Patrick F

DOCUMENT TYPE: LANGUAGE: GI Journal English

Aflavarin (I), a new bicoumarin, and β -aflatrem (II), an isomer of the tremorgen aflatrem, were isolated from the sclerotia of λ . flavus. The structures were determined through a series of 10 and 20 NMR expts., assisted by spectral comparisons with known compds. I exhibits potent antifeedant activity against the fungivorous beetle Carpophilus hemipterus. II causes a significant reduction in the growth rate of the

corn

earworm Helicoverpa zea. The presence of nominine as a minor metabolite of A. flavus is reported for the 1st time.

144446-23-1, B-Aflatrem
RL: BIOL (Biological study)
(insect inhibitor. from Aspergillus flavus)

14446-23-1 HCAPLUS

4H-3, 15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one,
10-(1,1-dimethyl-2-propenyl)-2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-2,2,13b,13c-tetramethyl-, (3a,5ba,7aβ,13b.alph
a,13cβ,15aα)-(+)- (9CI) (CA INDEX NAME)

.L9 ANSWER 26 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

63722-91-8, Paspalinine 70553-75-2, Aflatrem
RL: BOC (Biological occurrence); BSU (Biological study, unclassified);
BIOL (Biological study); OCCU (Occurrence)
(of Aspergillus flavus)
63722-91-8 HCAPLUS
4H-3,15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one,
2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-2,2,13b,13c-tetramethyl-, (3R,5bS,7aS,13bS,13cR,15aS)- (9CI) (CA INDEX NAME)

70553-75-2 HCAPLUS
4H-J, 15a-Epony-1-benzoxepino[6',7':6,7]indeno[1,2-b]indo1-4-one,
9-(1,1-dimethyl-2-propenyl)-2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-2,2,13b,13c-tetramethyl-, (3R,5b5,7a5,13b5,13cR,15a5)- (9CI)
(CA INDEX NAME)

L9 ANSWER 27 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN
ED Entered STN: 03 Apr 1992
ACCESSION NUMBER: 1992:129335 HCAPLUS
DOCUMENT NUMBER: 116:129335
TITLE: Total syntheses of (+)-paspalici
AUTHOR(S): Sunazuka. I.; Smith a n

116:129335
Total syntheses of (+)-paspalicine and (+)-paspalinine Sunazuka, T.; Smith, A. B., III; Leenay, T. L.; Wood, J. K.
Res. Cent. Biol. Funct., Kitasato Inst., Japan Tennen Yuki Kagobutsu Toronkai Koen Yoshishu (1991), 33cd, 172-9
CODEN: TYKYDS

CORPORATE SOURCE: SOURCE:

DOCUMENT TYPE: LANGUAGE:

CODEN: TYKYDS

MENT TYPE: Journal

UNAGE: Japanese

A symposium on the total synthesis of the title compds. in which a unified strategy in synthesis of (-)-paspaline is exploited.

11024-05-8-P, (+)-Paspalicine 63722-91-8P,

(+)-Paspalinine

RL: SPN (Synthetic preparation); PREP (Preparation)

(total synthesis of)

11024-05-8 HCAPLUS

4H-3,15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one,

2,3,5b,6,7,7a,8,13,13b,1c,14,15-dodecahydro-2,2,13b,13c-tetramethyl-,

(3R,5bR,7aS,13bS,13cS,15aS)- (9CI) (CA INDEX NAME)

63722-91-8 HCAPLUS

03/22-51-51-6103 4H-3, 15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indo1-4-one, 2,3,5b,6,7,7a,8,13,13b,13c,14,15-40decahydro-5b-hydroxy-2,2,13b,13c-tetramethyl-, (3R,5b5,7a5,13b5,13cR,15a5)- (9CI) (CA INDEX NAME)

1.9 ANSWER 26 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

L9 ANSWER 28 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN ED Entered STN: 03 Apr 1992 ACCESSION NUMBER: 1992:129296 HCAPLUS 1000CMENT NUMBER: 1500CMENT NUMBER: 1

116:129296
Indole diterpene synthetic studies. 8. The total synthesis of (+)-paspalicine and (+)-paspalinine Smith, Amos B., III: Kingery-Wood, Jill: Leenay. Tamara L.: Nolen, Ernest G.: Sunazuka, Toshiaki Dep. Chem., Univ. Pennsylvania, Philadelphia, PA, 19104, USA
Journal of the American Chemical Society (1992), 114(4), 1438-49
CODEN: JACSAT: ISSN: 0002-7863 AUTHOR(S):

CORPORATE SOURCE:

SOURCE:

DOCUMENT TYPE: Journal

LANGUAGE: OTHER SOURCE(S): English CASREACT 116:129296

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

The development of a unified synthetic strategy for the indole diterpene tremorgens has led to the first total syntheses of (+)-paspalicine (I; R = H) and (+)-paspalinine (I; R = OH), in 22 and 23 steps, resp. The cornerstone of the approach is the intermediacy of (-)-II this proposed common precursor to the simple indole diterpenes was previously generated in. nine steps from (+)-Wieland-Miescher ketone (III) in an earlier synthesis of (-)-paspaline. Key transformations include installation of the indole unit via the Gassman protocol, alkylation of the thermodn. anion of dimethylhydrazone IV with epoxide (-)-W, and RhCl3-promoted isometrization of the \$\beta,\text{v-unsatd. ketone in (+)-VI to afford I (R = H), a particularly noteworthy result given the importance of the C(4b) hydroxyl group for tremorgenic activity. MM2 calcains. revealed that I embody the less stable relative configuration of the F- and G-ring bicyclic ketal modety.

less stable relative configuration of the F- and G-ring bicyclic ketal moiety.

138331-69-8 138331-70-1
RI: PRP (Properties)
[(force-field calons. of conformation of)

138331-69-8 RCAPAUS
4H-3, 15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one,
2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodacahydro-2,2,13b,13c-tetramethyl-,
[35-(3a,5bp,7ae,13bp,13ca,15aa)]- (9CI)
(CA INDEX NAME)

138331-70-1 HCAPLUS
4H-3,15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one,

ANSWER 28 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued) 2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-2,2,13b,13c-tetramethyl-, [3S-(3a,5bβ,7aa,13bβ,13cα,15a.al pha.)]- [9CI) (CA INDEX NAME)

138235-49-1P
RL: SPN (Synthetic preparation); FORM (Formation, nonpreparative); PREP (Preparation)
(Formation of, in preparation of paspalicine)
138235-49-1 HCAPLUS
2H-3,15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4(3H)-one,
5b,6,7,7a,8,13,13b,13c,14,15-decahydro-5b,8-dihydroxy-2,2,13b,13c-tetramethyl- (9CI) (CA INDEX NAME)

63722-90-7P 63764-58-9P 90866-61-8P RL: SPN (Synthetic preparation): PREP (Preparation) (synthetic strategy for preparation of) 63722-90-7 HCAPLUS

no/id=yu-/ HCAPLUS
4H-3,15a-Epouy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one,
2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-2,2,13b,13c-tetramethyl-10-(3-methyl-2-butenyl)-, (3R,5b5,7a5,13b5,13cR,15a5)- (9CI)
(CA INDEX NAME)

ANSWER 28 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)
(+)-Paspalinine
RL: SPN (Synthetic preparation), PREF (Preparation)
(total synthesis of)
11024-55-5 HCAPLUS
4H-3,15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one,
2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-2,2,13b,13c-tetramethyl-,
(3R,5bR,7as,13bS,13cS,15aS)- (9CI) (CA INDEX NAME)

63722-91-8 HCAPLUS 63722-91-8 HCAPUUS 4H-3,15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one, 2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-2,2,13b,13c-tetramethyl-, (3R,5bS,7aS,13bS,13cR,15aS)- (9CI) (CA INDEX NAME)

ANSWER 28 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

63764-58-9 HCAPLUS
4H-3,15a-Eppoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one,
2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-10-[(1E)-3-hydroxy-3-methyl-1-butenyl]-2,2,13b,13c-tetramethyl-, (3R,5bS,7aS,13bS,13cR,15aS)(9CI) (CA INDEX NAME)

90866-61-8 HCAPLUS
4H-3,15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one,
2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-2,2,13b,13ctetramethyl-9-(3-methyl-2-butenyl)-, (3R,5b5,7a5,13b5,13cR,15a5)- (9CI)
(CA INDEX NAME)

IT 11024-55-8P, (+)-Paspalicine 63722-91-8P,

L9 ANSWER 29 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN

ED Entered STN: 27 Dec 1991
ACCESSION NUMBER: 1991:680346 HCAPLUS
DOCUMENT NUMBER: 1151:280346
TITLE: The total synthesis of (+)-paspalicine and (+)-paspalinine
Klingery-Wood, Jill Elizabeth
Univ. Pennsylvania, Philadelphia, PA, USA
(1991) 266 pp. Avail.: Univ. Microfilms Int., Order
No. DA9125690
From: Diss. Abstr. Int. B 1991, 52(3), 1438-9
Dissertation
English

63722-91-8 HCAPLUS 4H-3,15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one, 2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-2,2,13b,13c-tetramethyl-, (3R,5bS,7aS,13bS,13cR,15aS)- (9CI) (CA INDEX NAME)

115:232568

Synthetic studies towards paspalicine: preliminary investigations, and the synthesis of 3',4',7',7',a,9',10',11',11'a-octahydro-4',4',7'a-trimethylspiro(1,3-dioxolane)-2,8'(6'H)-2'H-3',5'a-epoxynaphth(2,1-b)oxepin-2'-one Ali, Amin Guile, Simon D.; Saxton, J. Edvin; Thornton-Pett, Mark Sch. Chem., Univ. Leeds, Leeds, LS2 9JT, UK Tetrahedron (1991), 47(32), 6407-26 CODEN: TETRAB; ISSN: 0040-4020
Journal English
CASREACT 115:232568

AUTHOR(S):

CORPORATE SOURCE: SOURCE:

DOCUMENT TYPE: LANGUAGE: OTHER SOURCE(S): GI

AB An efficient route to the characteristic β-pyrone ketal functionality of paspalicine has resulted in the preparation of ketal I, containing the requisite stereochem., in 8 steps from the monoketal II of the Wieland-Miescher ketone in an overall yield of 8.0%.

II 11024-55-8, Paspalicine
RL: RCT (Reactant): RACT (Reactant or reagent)
(preparation of intermediates for)
RN 11024-55-8 HCAPLUS
CN 4H-3, 15a-Epoxy-1-benzoxepino(6',7':6,7]indeno[1,2-b]indol-4-one, 2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-2,2,13b,13c-tetramethyl-, (3R,5bR,7a5,13bS,13c5,15aS)- (9CI) (CA INDEX NAME)

L9 ANSWER 31 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN
ED Entered STN: 15 Jun 1991
ACCESSION NUMBER: 1991:228600 HCAPLUS
DOCUMENT NUMBER: 114:228600
TITLE: Symphosic Communication of the state of the st

114:228600
Synthetic studies towards paspalicine. Part 2.
Synthesis of the eastern half
Guile, Simon: Saxton, J. Edwin: Thornton-Pett, Mark
Sch. Chem., Univ. Leeds, Leeds, LS2 93T, UX
Tetrahedron Letters (1991), 32(10), 1381-4
CODEN: TELEAY: ISSN: 0040-4039
Journal
English AUTHOR(S): CORPORATE SOURCE: SOURCE:

DOCUMENT TYPE: LANGUAGE:

Intramol. cyclocondensation of hydroxypropylnaphthopyranone I gave dioxolonaphthopyranone II. The crystal structure of I and II is reported. 11024-55-8P. Paspalicine
RL: SPN (Synthetic preparation); PREP (Preparation) (dioxolonaphthopyranone fragment of, stereoselective preparation of) 11024-55-8 HCAPLUS AB

11024-55-8 HCAPUS 4H-3,15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one, 2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-2,2,13b,13c-tetramethyl-, (3R,5bR,7as,13bs,135c,15a5)- (9Di) (CA INDEX NAME)

L9 ANSWER 30 OF 61 HCAPLUS COPYRIGHT 2007 ACS ON STN (Continued)

L9 ANSWER 32 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN ED Entered STN: 15 Jun 1991 ACCESSION NUMBER: 1991:222917 HCAPLUS

DOCUMENT NUMBER: TITLE:

114:222917
Isolation and determination of paspalitrem-type tremorgenic mycotoxins using liquid chromatography with diode-array detection
Selala, M. I., Husuku, A., Schepens, P. J. C. Toxicol. Cent., Univ. Antwerp, Wilrijk, 2610, Belg. Analytica Chimica Acta (1991), 244(1), 1-8
CODEN: ACACAN; ISSN: 0003-2670
Journal
English

AUTHOR(S):

CORPORATE SOURCE: SOURCE:

DOCUMENT TYPE:

DOCUMENT TYPE: Journal
LANGUAGE: English
AB A liquid chromatog. (LC) method is described for the isolation and
determination of
the tremorgenic mycotoxins paxilline (Penicillium paxilli NRRL 6110),
paspaline, paspalnine, and paspalicine (Claviceps paspali). Following a
Soxhlet extraction of a mold-contaminated matrix using chloroform, the crude
extract was partitioned between hexame and 801 aqueous methanol. The latter
fraction, containing the desired toxin(s), was evaporated to dryness, the

residue dissolved in methylene chloride, and the solution analyzed by liquid

chromatog.
using a Supelcosil LC-Si column eluted with methylene chloride-di-Et ether
(9 + 1, volume/volume). A mixture containing stds. of these compds. was similarly

larly analyzed. All toxins were detected using a UV diode-array detector. The generated UV spectra and chromatog. data of the standard toxins were stored

a computer as a library and used to identify these toxins in a crude mixture. The purity of the separated peaks and the amount of toxin in the crude

The purity of the separated peaks and the amount of tokin in the citude use
were also determined The toxins were isolated by selectively collecting the
eluted peaks using a programmable fraction collector equipped with a peak
level sensor. Further confirmation of compound identity was achieved by
mass spectrometry using the direct inlet probe method. In comparison with
methods used previously to isolate these toxins, the present technique is
fast and allows the acquisition of complete UV spectral information and
chromatog, data and the isolation of multiple toxins in a single
chromatog, operation.
11024-55-8, Paspalicine 63722-91-8, Paspalinine
RI: BIOL (Biological study)
(isolation and determination of, from Claviceps paspali by liquid
matog, with mixture

(1901ation and determination of, from Claviceps paspair by liquid chromatog, with diode-array detection)
RN 11024-55-8 RCAPLUS
CN 4H-3,15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one,
2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-2,2,13b,13c-tetramethyl-,
(3R,5bR,7a5,13b5,13c5,15aS)- (9CI) (CA INDEX NAME)

e7.9 ANSWER 32 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

63722-91-8 HCAPLUS
4H-3,15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one,
2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-2,2,13b,13c-tetramethyl-, (3R,5bS,7aS,13bS,13cR,15aS)- (9CI) (CA INDEX NAME)

ANSWER 33 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN (Continue tetramethyl-, (3R,5bS,7aS,13bS,13cR,15aS)- (9CI) (CA INDEX NAME)

L9 ANSWER 33 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN ED Entered STN: 31 May 1991 ACCESSION NUMBER: 1991:207536 HCAPLUS DOCUMENT NUMBER: 114:207536 HCAPLUS

DOCUMENT NUMBER: TITLE:

Ili:207535
Total syntheses of (+)-paspalicine and (+)-paspalinine Smith, Amos B., III; Sunazuka, Toshiaki: Leenay, Tamara L.; Kingery-Wood, Jill Monell Chem. Senses Cent., Univ. Pennsylvania, Philadelphia, PA, 19104, USA
Journal of the American Chemical Society (1990), 112(22), 8197-8
CODEN: JACSAT; ISSN: 0002-7863
Journal English
CASREACT 114:207536 AUTHOR (S) :

CORPORATE SOURCE:

SOURCE:

DOCUMENT TYPE: LANGUAGE: OTHER SOURCE(S): GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

TRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Total syntheses of the indole diterpenes (+)-paspalicine (I) (R = H) (II) and paspalanine I (R = CH) were achieved in 22 and 23 steps, cesp., via a unified strategy applicable to the entire class of simple indole tremorgens. The intermediacy of tricyclic ketone III prepared in 9 steps from (+)-Wieland-Miescher ketone, served as the starting material for this approach. Central features of the scheme included installation of the indole unit via the Gassman protocol, construction of rings F and G by alkylation of the thermodn. anion of the dimethylhydrazone of (+)-IV with epoxide (-)-V, and an RhCl3-promoted migration of the B,Y-olefinic bond in (+)-VI to afford II. (+)-Paspalinine in turn was secured via SoO2 oxidation of II. The latter transformation is important given the requirement of a C(4b) tertiary hydroxyl group for tremorgenic activity. 11024-55-8 63722-91-89

RL: SPN (Synthetic preparation), PREP (Preparation) (total synthesis of) 11024-55-8 HCAPLUS 4H-3, 15a-Epoxy-1-benzoxepino(6',7':6,7)indeno(1,2-b)indol-4-one, 2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-2,2,13b,13c-tetramethyl-, (3R,5bR,7as,13bS,13cS,15aS)- (9CI) (CA INDEX NAME)

63722-91-8 HCAPLUS

4H-3,15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one, 2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-2,2,13b,13c-

L9 ANSWER 34 OF 61 HCAPLUS COPYRIGHT 2007 ACS ON STN ED Entered STN: 29 Sep 1990 ACCESSION NUMBER: 1990:510705 HCAPLUS DOCUMENT NUMBER: 113:110705

DOCUMENT NUMBER: TITLE: Production of alfatrem and its related

Production of alfatrem and its related indoloditerpenes by microsclerotium-producing strains of Aspergillus flavus
Tanaka, T., Hasegawa, A.; Aoki, N.; Yamamoto, S.; Udagawa, S.; Sekita, S.; Harada, M.; Nozawa, K.; Kawai, K.
Public Health Res. Inst., Kobe, 650, Japan Mycotoxins (1989), 30, 19-23
CODEN: MAIKD3; ISSN: 0285-1466
Journal
Jananese AUTHOR(S):

CORPORATE SOURCE: SOURCE:

DOCUMENT TYPE: LANGUAGE: GI Japanese

Four strains of atypical A. flavus isolated from Indonesian traditional medicines (native name, Jamu) and three representative strains of the same fungus obtained from the Northern Regional Research Center, USDA were cultured on Czapek-yeast extract agar at 34° and the amts. of the tremorgenic mycotoxins, aflatrem (I) and seven related indoloditerpenes, were measured by high-performance liquid chromatog, with a UV detector. Al strains examined produced I and dihydromyaflavinine. The concents of them ranged from 149 to 3009 and 1092 to 35,629 µg/g of the dried sclerotia, resp. Aflavinine, monohydromyaflavinine, mapspaline, paspaline, monohydromyaflavinine, paspaline, paspalinine, and emindole SB were detected in the sclerotia of A. flavus. This is the first report on the production of emindole SB and paspaline by A. flavus. 63722-91-8, Paspalinine 70553-75-2, Aflatrem RL: FORM (Formation, nonpreparative) (formation of, by Aspergillus flavus) 63722-91-8 HCAPLUS (H-3, 15a-Eppoxy-1-benzoxepino[6', 7':6, 7]indeno[1,2-b]indol-4-one, 2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-2,2,13b,13c-tetramethyl-, (3R,5b5,7a5,13b5,13cR,15aS)- (9CI) (CA INDEX NAME)

ANSWER 34 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

70553-75-2 HCAPLUS
4H-3,15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one,
9-(1,1-dimethyl-2-propenyl)-2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-2,2,13b,13c-tetramethyl-, (3R,5b5,7a5,13b5,13cR,15a5)- (9CI)
(CA INDEX NAME)

L9 ANSWER 36 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN ED Entered STN: 31 Mar 1990 ACCESSION NUMBER: 1990:115080 HCAPLUS DOCUMENT NUMBER: 1992:115080

112:115080
Gradient high-performance liquid chromatography using alkylphenone retention indices of insectidical extracts of Penicillium strains
Russell, R., Paterson, M.; Kemmelmeier, Carlos Int. Hycol. Inst., CAB, Kew/Surrey, TW9 3AF, UK Journal of Chromatography (1989), 483, 153-68
CODEN: JOCRAM; ISSN: 0021-9673

AUTHOR(S):

CORPORATE SOURCE: SOURCE:

DOCUMENT TYPE:

CODEN: JOCTAM: ISSN: 0021-9673

MENT TYPE:

Journal

Journal

Journal

Journal

Journal

Journal

Finglish

Purified exts. of 4 Penicillium strains which were active against the insect pest Spodoptera littoralls were analyzed by gradient HPLC for secondary metabolite stds. detected previously in the exts. by TLC was undertaken in order to obtain bracketed retention indexes. More metabolites were detected by HPLC than by TLC, although some compds. detected by TLC in some strains were not detected by this HPLC method. A minority of metabolites were exclusive to each strain, and most were produced by >1 strain. The profiles were more characteristic of each strain when only the larger peaks were considered. This emphasizes the importance of detection limits in secondary metabolite anal. Some of the implications of these analyses to fungus toxicity and systematic mycol. are discussed.

implications of these analyses to fungus toxicity and systematic mycol. are discussed.

70553-75-2, Aflatrem
RL: PROC (Process)
(separation of, of Penicillium by HPLC)

70553-75-2 HCAPLUS
4H-3,15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one,
9-(1,1-dimethyl-2-propenyl)-2,3,5b,6,7,7a,8,13,13b,13c.14,15-dodecahydro-5b-hydroxy-2,2,13b,13c-tetramethyl-, (3R,5bS,7aS,13bS,13cR,15aS)- (9CI)

(CA INDEX NAME)

L9 ANSWER 35 OF 61 HCAPLUS COPYRIGHT 2007 ACS ON STN

ED Entered STN: 28 Apr 1990

BOCUMENT NUMBER: 1990:158678 HCAPLUS

DOCUMENT NUMBER: 112:158678 HCAPLUS

113:158678 HCAPLUS

113:1586

DOCUMENT TYPE: LANGUAGE: OTHER SOURCE(S): GI

The \$\textit{B}\$-pyrone ketal I, which constitutes rings \$\textit{D}\$-G of the mold metabolite paspalicine, was prepared in 50%, overall yield from the monoketal II.

11024-55-8P, Paspalicine
RL: PREP (Preparation)
(synthesis of rings D-G of)
11024-55-8 HCAPUS
4H-3,15a-\$poxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one,
2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-2,2,13b,13c-tetramethyl-,
(3R,5bR,7as,13bS,13cS,15as)- (9CI) (CA INDEX NAME)

L9 ANSWER 37 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN ED Entered STN: 23 Dec 1989 ACCESSION NUMBER: 1989:628778 HCAPLUS

DOCUMENT NUMBER: TITLE:

AUTHOR(S): CORPORATE SOURCE:

III: 228778

Experimental constraints in the study of the biosynthesis of indole alkaloids in fungi Laws, Ian: Mantle, Peter G. Dep. Biochem., Iep. Coll. Sci., Technol. Med., London, SW7 2AY, UK
Journal of General Microbiology (1989), 135(10), 2679-92
CODEN: JGMIAN, 1889, 0023 2023

SOURCE:

CODEN: JGMIAN; ISSN: 0022-1287

Journal

DOCUMENT TYPE: LANGUAGE:

CODEN: JGMIAN; ISSN: 0022-1287

JOURNAL

MENT TYPE: Journal

UAGE: English

The disproportionate difficulty in obtaining compelling exptl. evidence from 14C-radiolabeling that the indole molety of the otherwise isoprenoid penitrem A is biosynthesized by PenicIllium crustosum directly from tryptophan as explored. [benzene ring-14C]Tryptophan added to the broth beneath the mycelial mat of stationary liquid cultures labeled penitrem A with 1.41 incorporation, only 3-fold more than that determined for [methylene-14C]tryptophan or 10-14C]trycosine, incorporation of which could only have been indirect. In contrast, the substituted tryptophan-histidine diketopiperazine roquefortine, biosynthesized concurrently with penitrems by this organism, was labeled with compelling efficiency (23.44 incorporation of [benzene ring-14C]tryptophan). In submerged culture, Claviceps paspali concurrently biosynthesized an analogous pair of metabolites, 3-hydrowy-methylburbay paspalinine and lysergic acid e-hydrowyethylamide. This feature enabled the exptl. demonstratation of [benzene ring-14C]tryptophan incorporation to an extent more consistent with direct contribution of the indole moiety of the indole-direpenoid paspallnine derivative. The same precursor applied to the sporing surface of P. crustosum stationary cultures also provided stronger evidence for a direct biosynthetic role in the formation of penitrem A. In the absence of competition from any other indole-direpenoid pastilline. A double-labeling time-course experiment indicated temporal institution of steps in the biosynthesis of roquefortine. The inadequacy of classical

PARALLINE. A GOUDLE-LABELING time-course experiment indicated temporal separation of steps in the biosynthesis of roquefortine. The inadequacy of classical precursor techniques for studying biosynthesis of indole-diterpenoids in P. crustosum is discussed. The more homogeneous submerged culture fermentation system is preferred for experimentation.

IT 63764-58-9
RL: FORM (Formation, nonpreparative)
[formation of, from tryptophan by fungi, study of]
RN: FORM (FAPIUS
CN 4H-3,15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one, 2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-10-[[12]-3-hydroxy-3-methyl-1-butenyl]-2,2,13b,13c-tetramethyl-, (3R,5bs,7as,13bs,13cR,15as)-(9CI) (CA INDEX NAME)

ANSWER 37 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

L9 ANSWER 39 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN

ED Entered STN: 01 Oct 1989
ACCESSION NUMBER: 1989:512074 HCAPLUS
DOCUMENT NUMBER: 111:112074
Studies of fungal products. Part XXVI. Isolation and structures of two new indoloditerpenes related to aflavinine from a microsclerotium-producing strain of Aspergillus flavus
AUTHOR(S): Nozawa, Konheir Sekita, Setsuko, Harada, Masatoshi; Udagawa, Shunichi; Kawai, Kenichi
Fac. Pharm. Sci.. Hoshi Univ., Tokyo, 142, Japan
Chemical & Pharmaceutical Bulletin (1989), 37(3), 626-30

626-30 CODEN: CPBTAL: ISSN: 0009-2363

DOCUMENT TYPE: LANGUAGE: GI Journal English

Along with paspalinine, aflatrem, alfavinine, and dihydroxyaflavinine, two new indoloditerpenes, monohydroxyaflavinine (I) and monohydroxyisoaflavinine (II), were isolated from the CH2Cl2 extract of a microselerotium-producing strain of A. flavus, which has activity to produce aflatoxins. The structures of the above compds. were determined on

the basis of spectroscopic investigations and x-ray crystal analyses of I

ΙŢ

Dasis of Spectroscopic Investigations and wright trystal analyses of a acctone solvate and II. 63722-91-8, Papalinine 70553-75-2, Aflatrem RI: BIOL (Biological study) (from Aspergillus flavus) 63722-91-8 HCAPLUS 6472-91-9 HCAPLUS 4H-3,15a-Epoxy-1-benzoxepino(6',7':6,7]indeno[1,2-b]indol-4-one, 2,3,5b,6',7-a,8,13.13b,12c,14,15-dodecahydro-5b-hydroxy-2,2,13b,13c-tetramethyl-, (3R,5bS,7a5,13b5,13cR,15a5)- (9CI) (CA INDEX NAME)

L9 ANSWER 38 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN ED Entered STN: 10 Nov 1989 ACCESSION NUMBER: 1989:574479 HCAPLUS DOCUMENT NUMBER: 1111:174479 The total synthesis of (-)-paspx

AUTHOR (S):

111:174479
The total synthesis of (-)-paspaline and progress toward the total synthesis of (+)-paspalicine Leenay, Tamara Leigh Univ. Pennsylvania, Philadelphia, PA, USA (1988) 273 pp. Avail.: Univ. Microfilms Int., Order No. DA8816198
From: Diss. Abstr. Int. B 1989, 49(7), 2652-3 Dissertation English CORPORATE SOURCE: SOURCE:

DOCUMENT TYPE: Dissertation
LANGUAGE: English
AB Unavailable
RI,: SPN (Synthetic preparation); PREP (Preparation)
(total synthesis of)
RN 11024-55-8 HCAPLUS
CN 4H-3,15a-Epoxy-1-benzoxepino(6',7':6,7]indeno(1,2-b]indol-4-one,
2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-2,2,13b,13c-tetramethyl-,
(3R, SbR,7as,13bS,13cs,14s) (GA INDEX NAME)

ANSWER 39 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued) 70553-75-2 HCAPLUS 4H-3,15a-Rppony-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one, 9-(1,1-dimethyl-2-propenyl)-2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydrosb-hydroxy-2,2,13b,13c-tetramethyl-, (3R,5b5,7as,13b5,13cR,15a5)- (9CI) (CA INDEX NAME)

L9 ANSWER 40 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN
ED Entered STN: 20 Aug 1989
ACCESSION NUMBER:
DOCUMENT NUMBER:
111:58:121
Indole diterpene synthetic studies. 5. Development of a unified synthetic strategy; a stereocontrolled, second-generation synthesis of (-)-paspaline
Smith, Amos B., III; Leenay, Tamara L.
Monell Chen. Senses Cent., Univ. Pennsylvania, Philadelphia, PA, 19104-2236, USA
Journal of the American Chemical Society (1989),
111(15), 5761-8
CODEN: JACSAT; ISSN: 0002-7863
JOURNAL TYPE:
LANGUAGE:
CTIL TYPE:
LANGUAGE:
CASREACT 111:58121

DOCUMENT TYPE: LANGUAGE: OTHER SOURCE(S): GI

A highly stereocontrolled, second-generation synthesis of (-)-paspaline (I) is described. The synthesis proceeded via an initial nine-step conversion of (+)-Wieland-Miescher ketone (II) to tricyclic cyclopentanone III, an intermediate that is expected to be useful for the construction of other members of this family of tremorgenic indole diterpene alkaloids. Completion of the synthetic scheme involved an eight-step transformation of III to the tricyclotridecanone IV, an advanced intermediate in the first total synthesis of I. 11024-55-8, Paspalicine 63722-91-8
RL: RCT (Reactant): RACT (Reactant or reagent) (potential intermediate for, preparation of) 11024-55-8 HCAPLUS 4H-3.15a-Epoxy-1-benzoxepino(6', 7':6, 7]indeno[1, 2-b]indol-4-one, 2,3,5b,6,7a,8,131,31b,13c,14,15-dodecahydro-2,2,13b,13c-tetramethyl-, (3R,5bR,7as,13bs,13cs,15as) (9CI) (CA INDEX NAME)

L9 ANSWER 41 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN DE DE Entered STN: 12 May 1989 ACCESSION NUMBER: 1989:167855 HCAPLUS DOCUMENT NUMBER: 110:167855 The tremorigen aflatrom is a confidence of the composition of the property of the proper

110:167855
The tremorigen aflatrem is a positive allosteric modulator of the γ -aminobutyric acidA receptor channel expressed in Xenopus cocytes Yac, Y.: Peter. A. B.: Baur. R.: Sigel, E. Dep. Pharamacol., Univ. Bern, Bern, CH-3010, Switz. Molecular Pharmacology (1989), 35(3), 319-23 CODEN: MOPMA; ISSN: 0026-895X Journal English

AUTHOR (S): CORPORATE SOURCE:

SOURCE:

DOCUMENT TYPE: Journal 155N: 0026-895X

Journal LANGUAGE: English

AB Aflatrem potentiates the GABA-induced chloride current. This pos.

allosteric regulatory action of aflatrem was quant. studied on the GABAA
receptor channel expressed in Kenopus occytes after injection with chick
brain mRWA under voltage-clamp conditions. In this model system, aflatrem
potentiates the current induced by 5 µM GABA in a concentration-dependent
manner. Half-maximal potentiation was obtained with 2:4 µM aflatrem
and maximal stimulation of the GABA (5 µM) response was more than
10-fold. The potentiation was not associated with a change of the reversal
potential of the GABA-induced current. In the presence of 2 µM
aflatrem, the GABA dose-response curve shifted to lower concens., with the
Ka decreasing from 28 to 7 µM and the Hill coefficient, n, from 1.5 to 0.8,
as measured at a membrane potential -100 mV. At saturating concentration
of GABA (250
µM), aflatrem (10 µM) was still able to enhance the minuse of the concentration

ABA (250

ABA (250

ABA)

AFFA

to) 70553-75-2 HCAPLUS

H-3, 15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one,
9-(1,1-dimethyl-2-propenyl)-2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-2,2,13b,13c-tetramethyl-, (3R,5b5,7aS,13bS,13cR,15aS)- (9CI)
(CA INDEX NAME)

ANSWER 40 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

63722-91-8 HCAPLUS 4H-3,15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one, 2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-2,2,13b,13c-tetramethyl-, (3R,5bS,7aS,13bS,13cR,15aS)- (9CI) (CA INDEX NAME)

L9 ANSWER 41 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

EL9 ANSWER 42 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN
ED Entered STN: 11 Jun 1988
ACCESSION NUMBER: 1988:204858 HCAPLUS
DOCUMENT NUMBER: 1088:204858 HCAPLUS
108:204858
TITLE: Carbon-13 NNR spectroscopy of indole derivatives
AUTHOR(S): Morales-Rios, M. S.; Espineira, J.; Joseph-Mathan, P.
CORPORATE SOURCE: Mexico (Lt., 07000, Mex.
Magnetic Resonance in Chemistry (1987), 25(5), 377-95
CODEN: MRCHEG; ISSN: 0749-1581
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The chemical shifts of 298 naturally occurring and synthetic compds.
containing
the indole chromophoric group are listed. Substituent effects on 13C
chemical shifts (SCS) induced by substitution on the heteroarom.
five-membered ring are discussed. The data provide a reference set for
future

five-membered ring are discussed. The data provide a reference Sociol future

13C NMR investigations and highlight the need for unambiguous exptl. evidence to resolve controversial assignments for differently substituted representative indole derivs. Many original assignments have been changed, and values not considered to be unambiguously assigned are delineated. The IJ(CH) values for the parent indole were measured.

13T 63722-91-8, Paspalinine
RL: RCT (Reactant); RACT (Reactant or reagent)
(carbon-13 NMR chemical shifts of)
RN 63722-91-8 HCAPLUS

4H-3, 15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one,
2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecabydro-5b-hydroxy-2,2,13b,13c-ternmethyl-, (3R,5bS,7aS,13bS,13cR,15aS)- (9CI) (CA INDEX NAME)

ANSWER 43 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued) 2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-2,13b,13c-tetramethyl-, (3R,5b5,7a5,13b5,13cR,15a5) - (9C1) (CA INDEX NAME)

70553-75-2 HCAPLUS

4B-3, 15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one, 9-{1,1-dimethyl-2-propenyl)-2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-2,2,13b,13c-tetramethyl-, (3R,5bS,7aS,13bS,13cR,15aS)- (9CI) (CA INDEX NAME)

L9 ANSWER 43 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN ED Entered STN: 01 Apr 1988 ACCESSION NUMBER: 1988:109279 HCAPLUS

108:109279 DOCUMENT NUMBER:

108:109279
Novel indoloditerpenes, emindoles, and their related compounds from Emericella spp
Nozawa, Koheir Nakajima, Selichir Kawai, Kenichir Udagawa, Shunichir Horie, Yoshikazur Yamazaki, Mikio Fac. Pharm. Sci., Hoshi Univ., Japan
Tennen Yuki Kagobutsu Toronkai Koen Yoshishu (1987), 29, 637-43
CODEN: TYKYDS
Journal
Japanese AUTHOR (S):

CORPORATE SOURCE: SOURCE:

DOCUMENT TYPE: LANGUAGE: GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

In the course of survey of paxilline (I) in Emericella spp., new-type indoloditerpenes, emindoles DA (II) and DB (III), and emindole SA (IV), were isolated from the mycelial extract of E. desertorum and E. striata, resp. The structure of II, III, and IV were determined on the basis of the spectroscopic and chemical data of their derivs. and x-ray crystallog, of emindole DA monoacetate. Three new compds. related to I. emindole SB, dehydroxypaxilline, and paxilline acetate, were also isolated along with I and paspaline from the mycelium of E. striata, and their structures were elucidated by the spectroscopic and chemical investigation. Two different types of indoloditerpenes, emindole SA and paxilline analogs (paspaline, emindole SB, dehydroxypaxilline, and paxilline acetate from the same fungus, E. striata. Isolation of paspaline, emindole SB, dehydroxypaxilline acetate from the same fungus may suggest the biogenesis of I.
11024-55-8P 63722-91-8P 70553-75-2P
RL: SPN (Synthetic preparation), PREP (Preparation) (preparation of) 11024-55-8 RCAPUS
4H-3,15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b)indol-4-one, 2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-2,2,13b,13c-tetramethyl-

63722-91-0 HCAPLUS 4H-3,15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one,

L9 ANSWER 44 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN ED Entered STN: 12 Dec 1987 ACCESSION NUMBER: 1987:613332 HCAPLUS DOCUMENT NUMBER: 107:213332

107:213332
Action of tremorgenic mycotoxins on GABAA receptor Gant, Daniel B.r. Cole, Richard J.; Yaldes, James J., Eldefravi, Mohyee E.r. Eldefravi, Amira T. Sch. Med., Univ. Maryland, Baltimore, MD, 21201, USA Life Sciences (1987), 41(19), 2207-14 CODEN: LIFSAKr ISSN: 0024-3205 Journal English TITLE: AUTHOR(S):

CORPORATE SOURCE: SOURCE:

DOCUMENT TYPE:

COEN: LIFSAK, ISSN: 0024-3205

DOCUMENT TYPE: Journal
LANGUAGE: English

Brights

Br

HR-3, 15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one,
9-(1,1-dimethyl-2-propenyl)-2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro5b-hydroxy-2,2,13b,13c-tetramethyl-, (3R,5bS,7aS,13bS,13cR,15aS)- (9CI)
(CA INDEX NAME)

ANSWER 44 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

ANSWER 45 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

70553-75-2 HCAPLUS 70933-16-2 MLREUS 4H-3, 15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one, 9-{1,1-dimethyl-2-propenyl)-2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-2,2,13b,13c-tetramethyl-, (3R,5b5,7aS,13bS,13cR,15aS)- (9CI) (CA INDEX NAME)

L9 ANSWER 45 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN ED Entered STN: 27 Nov 1997 ACCESSION NUMBER: 1987:592376 HCAPLUS DOCUMENT NUMBER: 107:192376

107:192376
Standardized high-performance liquid chromatography of 182 mycotoxins and other fungal metabolites based on alkylphenone retention indexes and UV-VIS spectra (diode array detection)
Frisvad, Jens; Thrane, Ulf
Dep. Biotechnol., Tech. Univ. Denmark, Lyngby, DK-2800, Den.
Journal of Chromatography (1987), 404(1), 195-214
CODEN: JOCRAM; ISSN: 0021-9673

AUTHOR(S): CORPORATE SOURCE:

SOURCE:

DOCUMENT TYPE: LANGUAGE:

AB A general standardized method for the anal. of mycotoxins and other fungal secondary metabolites was developed, based on HPLC with an alkylphenone retention index and photodiode-array detection combined with TLC in 2 different eluents. Each fungal secondary metabolite is characterized by its bracketed alkylphenone retention time index, its UV-VIS absorption maximum and its retardation factors relative to griseofulvin in 2 TLC eluents. This system is effective for the comparison of chemotaxonomic data in different labs. and for a precise identification of fungi based on organic solvent exts. of fungal cultures. All important groups of mycotoxins and therefore the product in the HPLC.

organic solvent exts. of fungal cultures. All important groups of toxins and other fungal secondary metabolites could be detected in the HPLC system described and data are listed for 182 metabolites. The fungal secondary metabolites separated and characterized include aflatoxin B1 (1), B2, G1 and G2, ochratoxin A, citrinin, penicitlin acid, viomellein, penitrem A, patulin, sterigmatocystin, alternariol, tenuazonic acid, trichothecenes, coquefoctines, fusarin C, caeralenone, PR-toxin, citreoviridin, viridicatumtoxin, verruculogen, rugulosin, cyclopiazonic acid, penicillin G, and many other alkaloids, polyketides, and terpenes. 63722-91-8, Paspalinin 70553-75-2, Aflatrem R1: ANT (Analyte) ANST (Analytical study)
(HPLC and TLC determination of)
63722-91-8 HCAPLUS
4H-3,15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one, 2,3,55a,6',7,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-2,2,13b,13c-tetramethyl-, (3R,5bs,7as,13bs,13cR,15as)- (9CI) (CA INDEX NAME)

ANSWER 46 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN Entered STN: 14 Nov 1987 SSION NUMBER: 1987:570268 HCAPLUS H

ED Entered STN: ACCESSION NUMBER:

DOCUMENT NUMBER: TITLE:

DOALDS

Dihydropyridine receptors: possible allosteric regulation by tremorgenic toxins
Valdes, J. J.; Wolff, V. L.; Ross, D. H.
Health Sci. Cent., Univ. Texas, San Antonio, TX, USA
Report (1986), GADEC-TR-070008; Order No.
AD-A175469/9GAR, 16 pp. Avail: NTIS
From: Gov. Rep. Announce. Index (U. S.) 1987, 87(7),
Abstr. No. 712,405
Report
English

AUTHOR(S): CORPORATE SOURCE:

DOCUMENT TYPE: LANGUAGE: GI

SOURCE:

Dihydropyridine (DHP) receptors appear to be coupled to voltage-sensitive Ca channels that mediate Ca2+ flux in neural tissue. A number of toxins known to interact with these channels induce tremors and seizures and modulate the ability of DHP compds. to alter the gating properties of Ca2+ channels. It is therefore likely that tremorgenic mycotoxins may modulate Ca2+ channels either directly or by their ability to act at DHP receptors. Tremorgenic doses of aflatrem, cyclopiazonic acid (1), and verrouclogen increase the number and decrease the affinity of DHP receptors in rat

Presumably the Ca2+ channel and its associated receptors are important targets for several classes of fungal toxins.
70553-75-2, Aflatrem
RL: BIOL (Biological study)
(dihydropyridine receptors of brain cortex response to calcium channels in relation to)
70553-75-2 HCAPLUS
4H-3, 15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one,
9-(1,1-dimethyl-2-propenyl)-2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-2,2,13b,13c-tetramethyl-, (3R,5b5,7a5,13b5,13cR,15a5)- (9CI)
(CA INDEX NAME)

ANSWER 46 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

ANSWER 47 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

L9 ANSWER 47 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN ED Entered STN: 08 Aug 1987 ACCESSION NUMBER: 1987;436247 HCAPLUS DOCUMENT NUMBER: 107:36247

AUTHOR(S): CORPORATE SOURCE:

SOURCE:

NT NUMBER: 107:36247

High-performance Liquid chromatographic determination of profiles of mycotoxins and other secondary metabolites

(S): Frievad, Jens C.
ATE SOURCE: Dep. Biotechnol. Food Technol., Tech. Univ. Denmark, Lyngby, DK-2800, Den.

Journal of Chromatography (1987), 392, 333-47

CODEN: JOCARM: ISSN: 0021-9673

MT TYPE: Journal

GE: English
reversed-phase HPLC determination of profiles of mycotoxins and other DOCUMENT TYPE: LANGUAGE: AB A reversed fungal

al secondary metabolites was developed. Penicillium, Aspergillus, And Fusarium polyketides, terpenes, and alkaloids were emphasized. In a gradient elution, using MicO-MECN containing 0.05% CF3COOM, 134 secondary metabolites were eluted evenly with retention times of 1.08-34.40 min. Metabolites with the same retention time were usually not produced by the same species. As UV detection at 254 mm was used, some mycotoxins (type A trichothecenes, vicidicatumtoxin, peptide-like compds., and wanthomegnin) could not be detected. The method appears to be valuable for chemotaxonomic studies of fungi. Unpurified concentrated CHC13-MeOH exts.

petri dish cultures analyzed by the proposed method presented gave species-specific characteristic profiles of known and unknown secondary metabolites and mycotoxins.

63722-91-8, Paspalinin 70553-75-2, Aflatrem RL: ANT (Analyte): ANST (Analytical study) (chromatog. of, from fungi)

63722-91-8 HCAPLUS

63722-91-8 HCAPLUS

41-3, 15a-Fpoxy-1-benzoxepino(6',7':6,7)indeno[1,2-b]indo1-4-one, 2,3,5b,6,7',78,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-2,2,13b,13c-tetramethyl-, (3R,5bS,7aS,13bS,13cR,15aS)- (9CI) (CA INDEX NAME)

70553-75-2 HCAPLUS
4H-3, 15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one,
9-(1,1-dimethyl-2-propenyl)-2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-2,2,13b,13c-tetramethyl-, (3R,5bS,7aS,13bS,13cR,15aS)- (9CI)
(CA INDEX NAME)

L9 ANSWER 48 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN ED Entered STN: 26 Dec 1986 ACCESSION NUMBER: 1986:620582 HCAPLUS 105:220582 The Potent tremorgenic neurotoxi

105:220582
The potent tremorgenic neurotoxins lolitrem B and aflatrem: a comparison of the tremor response in mice Gallagher, R. T., Hawkes, A. D.
Ruakura Anim. Res. Stn., Ministr. Agric. Fish.,
Hamilton, N. Z.
Experientia (1986), 42(7), 823-5
CODEN: EXPEAM; ISSN: 0014-4754
Journal
English
e curves were determined.

AUTHOR(S): CORPORATE SOURCE:

SOURCE:

DOCUMENT TYPE: LANGUAGE:

JUNCE: Tree: Journal JUNCE: English Tremor dose-response curves were determined for mice dosed with the ryegrass neurotoxin lolitrem B (1) [81771-19-9] and the tremorgenic mycotoxin aflatrem [70553-75-2]. A family of characteristic curves was revealed for each tremorgen, with I eliciting a sustained tremor response persisting for >24 h. 70553-75-2

RL: BIOL (Biological study) (tremor from, lolitrem B in relation to) 70553-75-2 RCAPLUS (4H-3.15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one, 9-(1.1-dimethyl-2-propenyl)-2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-2,2,13b,13c-tetramethyl-, (3R,5b5,7aS,13b5,13cR,15aS)- (9CI) (CA INDEX NAME)

* L9 ANSWER 49 OF 61 HCAPLUS COPYRIGHT 2007 ACS On STN
ED Entered STN: 19 Apr 1986
ACCESSION NUMBER:
DOCUMENT NUMBER:
104:124633 HCAPLUS
104:124633 HCAPLUS
104:124633 HCAPLUS
Aflatrem: a tremorgenic mycotoxin with acute
neurotoxic effects
Valdes, James J.; Cameron, Jacqueline E.; Cole,
Richard J.
CORPORATE SOURCE:
50URCE:
CORPORATE SOURCE:
CORPORATE SOURCE:
CORPORATE SOURCE:
CORPORATE SOURCE:
DOCUMENT TYPE:
LANGUAGE:
LANGUAGE:
LANGUAGE:
English
G1

DOCUMENT TYPE: LANGUAGE: GI

Rats were given a single tremorgenic (3 mg/kg, i.p.) dose of aflatrem (I) (70553-75-2), and kinetics of amino acid neurotransmitter uptake was assessed in isolated hippocampal nerve terminals at 1 day, 1 wk, and 2 wk after injection. Results indicate a decrease in the capacity of the CABA (56-12-2) and glutamate [56-86-0] uptake systems, which was interpreted as a loss of nerve terminals. The affinity consts. suggest a decrease in release of these transmitters as well. In addition to its transient influence on transmitter release, a single low dose of I is able to induce degeneration of neuronal processes in hippocampal neurotransmitter systems and therefore represents a long-term health threat.
70553-75-2
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, (neurotransmitter uptake by hippocampus synaptosome response to) 70553-75-2 HCAPLUS (H-3,15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one, 9-(1,1-dimethyl-2-propenyl)-2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-2,2,13b,13c-tetramethyl-, (3R,5bS,7aS,13bS,13cR,15aS)- (9CI) (CA INDEX NAME)

L9 ANSWER 50 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN

ED Entered STN: 13 Oct 1984
ACCESSION NUMBER: 1984:526410 HCAPLUS
DOCUMENT NUMBER: 101:126410
Paspalitrem C, a new metabolite from sclerotia of Clavicesp paspali
Docner, Joe W.; Cole, Richard J.; Cox, Richard H.;
CURFORATE SOURCE: Natl. Peanut Res. Lab., U.S. Dep. Agric., Dawson, GA, 31742, USA
JOURNAL OF SOURCE: JOSEPH JOSE

DOCUMENT TYPE:

English

LANGUAGE:

A new metabolite was purified from CHCl3 exts. of C. paspali sclerotia by column chromatog, and preparative, centrifugally accelerated TLC. The chemical structure of the metabolite was determined by IH- and I3C-NMR spectroscopy to be paspalitrem C (I). Paspalitrem C differed from the previously identified tremorgen, paspalitrem A, only by the position of attachment of the 3-menthyl-2-buttenyl unit to the indole ring. 11024-55-8 63722-90-7 63722-91-8 63764-59-9 RL: BIOL (Biological study) (from Claviceps paspali) 11024-55-8 HCAPIUS HH-3,15a-Epoxy-1-benzowepino[6',7":6,7]indeno[1,2-b]indol-4-one, 2,3,5b,6,7a,8,13,13b,13c,14,15-dodecahydro-2,2,13b,13c-tetramethyl-, (3R,5bR,7as,13bS,13cS,15aS)- (9CI) (CA INDEX NAME)

63722-90-7 HCAPLUS 03/12/50-7 RAFRUS
4H-3, [15a=Rgoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one,
2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-2,2,13b,13ctetramethyl-10-(3-methyl-2-butenyl)-, (3R,5b5,7a5,13b5,13cR,15a5)- (9CI)
(CA INDEX NAME) L9 ANSWER 49 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

L9 ANSWER 50 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

63722-91-8 HCAPLUS

0.3/22-91-8 M.Ar&US
4H-3.15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indo1-4-one,
2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-2,2,13b,13ctetramethyl-, (38,555,7a5,1305,13cR,15a5) - (9C1) (CA INDEX NAME)

63764-58-9 HCAPLUS

W-.vu-u-z B-AC-MU3 4H-3.15a-Epoxy-1-benzoxepino(6',7':6,7]indeno(1,2-b]indol-4-one, 2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-10-{(1E)-3-hydroxy-3-methyl-1-butenyl-2,2,13b,13c-tetramethyl-, (3R,5bs,7as,13bs,13cR,15as)-(9CT) (CA INDEX NAME)

IT

90866-61-8
RL: BIOL (Biological study)
(of Claviceps paspali, separation and structure of)
90866-61-8 HCAPLUS
4H-3, 15a-Epoxy-1-benzosepino(6',7':6,7)indeno(1,2-b)indo1-4-one,
2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-2,2,13b,13c-tetramethyl-9-(3-methyl-2-butenyl)-, (3R,5b5,7a5,13b5,13cR,15a5)- (9CI)
(CA INDEX NAME)

ANSWER 50 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN

DOCUMENT TYPE:

Journal English LANGUAGE:

The x-ray structure of dihydroxyaflavinine (I), a new diterpene indole metabolite from A. flavus is reported. The fungal tremorgens aflatrem (II) and paspalinine (III) were also isolated from the A. flavus isolate. Previously, paspalinine had been reported from sclerotia of Claviceps

IT

Previously, paspainine had been reported from scientia of Clavicep: paspail.
63722-91-8 70553-75-2
RI. BIOL (Biological study)
(from Aspergillus flavus)
63722-91-8 HCAPLUS
641-3,15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one,
2,3,5b.6,7,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-2,2,13b,13c-tetramethyl-, (3R,5bS,7aS,13bS,13cR,15aS)- (9CI) (CA INDEX NAME)

L9 ANSWER 51 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN
ED Entered STN: 12 May 1984
ACCESSION NUMBER: 1982:468963 HCAPLUS
SOCUMENT NUMBER: 76:8963
TITLE: Tremorgenic indole metabolites and aflatoxins in sclerotia of Aspergillus flavus: an evolutionary perspective
Wicklow, Donald T.; Cole, Richard J.
North. Reg. Res. Cent., Sci. Educ. Adm., Peoria, IL, 61604, USA
SOURCE: Canadian Journal of Botany (1982), 60(5), 525-8
COCOMENT TYPE: Journal
LANGUAGE: English
AB Isolates of A. flavus from both cool and warm latitudes were cultured on potato dextrose agar containing yeast extract to identify
sclerotia-producing
strains. CRCI3-MeOH exts. of sclerotia were analyzed for the presence of aflatoxins and major indole metabolites (e.g., cyclopiazonic acid, aflatrem, and dihydroxyfalavinine). Aflatoxin is reported from sclerotia of A. flavus for the lat time. Cyclopiazonic acid was detected primarily in sclerotia of isolates from warmer latitudes. Aflatrem and dihydroxyfalavinine were detected in sclerotia from 85% of the strains examined These metabolites are associated with the sclerotial stage of the life cycle, because neither were detected in the sclerotia were compds. in A. flavus are examined from the evolutionary ecologist's perspective of selective forces shaping the chemical defense systems of fungi.

17 70553-75-2
RL: BIOL (Biological study)
(of Aspergillus flavus sclerotia, evolution in relation to)
RN 70553-75-2 HCAPLUS

NA H-3,15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one, 9-(1,1-dimethyl-2-propenyl)-2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-2,2,13b,13c-tetramethyl-, (3R,5b5,7a5,13b5,13cR,15a5)- (9CI)

ANSWER 52 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

70553-75-2 HCAPLUS
4H-3, 15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one,
9-(1,1-dimethyl-2-propenyl)-2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-2,2,13b,13c-tetramethyl-, (3R,5bS,7aS,13bS,13cR,15aS)- (9CI)
(CA INDEX NAME)

L9 ANSWER S3 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN

ED Entered STN: 12 May 1984
ACCESSION NUMBER: 93:46902 HCAPLUS
DOCUMENT NUMBER: 93:46902 HCAPLUS
ACTION OF ASPERGIAL FROM ASPERGIAL

DOCUMENT TYPE: LANGUAGE: GI

The mol. structure of aflatrem (I) was determined by UV, IR, 13C NMR, and

spectroscopy. The structure is very similar to that of paspalinine, a tremorgen from Claviceps paspali. 70553-75-2P
RL: PREP (Preparation)
(from Claviceps paspali, structure of)
70553-75-2 HCAPIUS
4H-3, 15a-Epoxy-1-benzoxepino[6',7'':6,7]indeno[1,2-b]indol-4-one, 9-(1,1-dimethyl-2-propenyl)-2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-2,2,13b,13c-tetramethyl-, (3R,5bS,7aS,13bS,13cR,15aS)- (9CI)
(CA INDEX NAME)

L9 ANSWER 55 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN

ED Entered STN: 12 May 1984
ACCESSION NUMBER: 93:46900 HCAPLUS
OCCUMENT NUMBER: 93:46900 HCAPLUS
93:46900
Papaline and paspalicine, two indole-mevalonate metabolites from Claviceps paspali
Springer, James P.; Clardy, Jon
Dep. Chen., Cornell Univ., Ithaca, NY, 14853, USA
Tetrahedron Letters (1980), 21(3), 231-4
CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE: Journal
LANGUAGE: English

DOCUMENT TYPE: LANGUAGE: GI

Crystal and mol. structures are presented for paspaline (I) and paspalicine (II). 11024-55-8P

11024-55-8P
RL: PREP (Preparation)
[from Claviceps paspali, crystal structure of)
11024-55-6 HCAPLUS
4H-3,15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one,
2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-2,2,13b,13c-tetramethyl-,
(3R,5bR,7a5,13b5,13c5,15a5)- (9CI) (CA INDEX NAME)

L9 ANSWER 54 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN

ED Entered STN: 12 May 1984
ACCESSION NUMBER: 93:46901 HCAPLUS
SOUCHENT NUMBER: 93:46901 HCAPLUS
93:46901

DOCUMENT TYPE: LANGUAGE: GI

The structure and absolute configuration of paspalinine (I) were determined UV,

TV.

IR, and NMR spectroscopy, and by x-ray crystallog.

63722-91-8P

RL: PREP (Preparation)

(from Claviceps paspali, structure and absolute configuration of)

63722-91-8 HCAPLUS

4H-3,15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one,

2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-2,2,13b,13c
tetramethyl-, (3R,5bS,7aS,13bS,13cR,15aS)- (9CI) (CA INDEX NAME)

L9 ANSWER 56 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN ED Entered STN: 12 May 1984 SACCESSION NUMBER: 1979;589416 HCAPLUS DOCUMENT NUMBER: 1979;589416 HCAPLUS 111E: 40x1n production by an Multiple toxin production by an isolate of Aspergillus flavus

flavus Richard, J. L.; Gallagher, R. T. Natl. Anim. Dis. Cent., Sci. Educ. Adm., Ames, IA, 50010, USA Mycopathologia (1979), 67(3), 161-3 CODEN: MYCPAH: ISSN: 0369-299X Journal English AUTHOR(S): CORPORATE SOURCE:

SOURCE:

DOCUMENT TYPE: LANGUAGE: GI

Three toxins were recovered from rice and wheat cultures of an isolate of A. flavus. The toxins were present simultaneously in the cultures after 1 or 2 wk incubation and were identified as aflatoxin, cyclopiazonic acid (I), and aflatrem (II), a recently identified indole-mevalonate

(I), and aflatrem (II), a recently identified indole-mevalonate metabolite.
70553-75-2
RL: FORM (Formation, nonpreparative)
(formation of, by Aspecgillus flavus)
70553-75-2 HCAPLUS
HH-3, 15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one,
9-(1,1-dimethyl-2-propenyl)-2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-2,2,13b,13c-tetramethyl-, (3R,5bs,7as,13bs,13cR,15as)- (9CI)
(CA INDEX NAME)

► L9 ANSWER 56 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

ANSWER 57 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN

(Continued)

L9 ANSWER 57 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN
ED Entered STN: 12 May 1984
ACCESSION NUMBER: 1979:433550 HCAPLUS
DOCUMENT NUMBER: 91:33550
TITLE: 48 Flatrem, the tremorgenic mycotoxin from Aspergillus
flavus flavus
Gallagher, Rew T.; Wilson, Benjamin J.
Appl. Biochem. Div., Dep. Sci. Ind. Res., Palmerston
North, N. Z.
Mycopathologia (1979), 66(3), 183-5
CODEN: MYCPAH: ISSN: 0369-299X
Journal; General Review
English AUTHOR(S): CORPORATE SOURCE: SOURCE: DOCUMENT TYPE: LANGUAGE: GI

H2C = CHCMe2

A review and discussion with 15 refs. on tremorgenic aflatrem (I) {
70553-75-2} from A. flavus.
70553-75-2
RL: BIOL (Biological study)
(of Aspergillus aflavus)
70553-75-2
HCAPLUS
4H-3, 15a-8poxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one,
9-(1,1-dimethyl-2-propenyl)-2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydrosb-hydroxy-2,2,13b,13c-tetramethyl-, (3R,5bS,7aS,13bS,13cR,15aS)- (9CI)
(CA INDEX NAME) AB IT

L9 ANSWER 58 0F 61 HCAPLUS COPYRIGHT 2007 ACS on STN ED Entered STN: 12 May 1984 ACCESSION NUMBER: 1978:402054 HCAPLUS B0:2054 HCAPLUS STRUCTURE S

Structural studies of naturally occurring toxicogenic

AUTHOR(S):

CORPORATE SOURCE: SOURCE:

Structural studies of descriptions of the compounds Springer, J. P. Ames Lab., Ames, IA, USA Report (1977), IS-T-757, 107 pp. Avail: NTIS From: Energy Res. Abstr. 1978, 3(7), Abstr. No. 15917 DOCUMENT TYPE:

AROUNDENT TIPE: Report
LANGUAGE:
English poison, samitomin, is a neurotomin isolated from
Alaska butter clams (Samidomus giganteus), mussels (Mytilus
californianus), and amenic cultures of the dinoflagellate, Gonyaulam
catenella. The structure of samitomin was determined by single crystal

x-ray diffraction. It possessed a unquee tricyclic arrangement of atoms

containing

aining
2 guandinium moieties and a hydrated ketone. The relative stereochem. is
presented as well as the absolute configuration. The chemical constitution

presented as well as the absolute configuration. The chemical constitution tremorgenic metabolite, paxilline, isolated from exts. of the fungus, Penicillium paxilli, was also determined Paxilline represents a previously unreported class of natural compds. formed by the combination of tryptophan and mevalonate subunits. The complete stereostructure of 2 other fungal metabolites, paspaline and paspalicine, closely related to paxilline but isolated from Claviceps paspal were also determined The stereostene. of paxilline, paspaline, and paspalicine are identical at corresponding chiral centers. 11024-55-8
RL: PROC (Process)
(structure study of)
11024-55-8
RL: PROC (Process)
(45-1024-55-8 PAZPLUS
4H-3.15a-Epcxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one, 2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-2,2,13b,13c-tetramethyl-, (3R,5bR,7aS,13bS,13cS,15aS)- (9CI) (CA INDEX NAME)

L9 ANSWER 59 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN ED Entered STN: 12 May 1984 ACCESSION NUMBER: 1978:46068 HCAPLUS DOCUMENT NUMBER: 88:46068

88:46068
Paspalum staggers: isolation and identification of tremorgenic metabolites from sclerotis of Claviceps paspali
Cole, Richard J.; Dorner, Joe W.; Lansden, John A.;
Cox, Richard H.; Pape, Countney: Cunfer, Barry;
Nicholson, Stephen S.; Bedell, David M.
Natl. Peanut Res. Lab., Dawson, GA, USA
Journal of Agricultural and Food Chemistry (1977),
25(5), 197-201
CODEN: JARCAU; ISSN: 0021-8561
Journal

AUTHOR(S):

CORPORATE SOURCE: SOURCE:

DOCUMENT TYPE: LANGUAGE: GI

I. R-H Me II, R=CH2CH==CMe2 III, R=CH==CHCMe2OH

The neurol. disorder, Dallisgrass poisoning or paspalum staggers, occurs in cattle that graze Paspalum dilatatum infected with the fungus C. paspali and occurs sporadically in the southern portions of the U.S. Three tremorgenic metabolites were isolated from C. paspali sclerotia collected from P. dilatatum, and identified by spectroscopic methods. One of the metabolites identical with paspalinine (I), a previously reported metabolite of C. paspali. The remaining 2 metabolites differ from I in that they contain an addnl. isopreme and hydroxyisopreme unit attached to carbon 6 of the 6-membered indole ring, and are 3-methyl-2-butenylpaspalinine (II) and 3-hydroxy-3-methyl-1-butenylpaspalinine (III), resp.

resp. 63722-90-7 63722-91-8 63764-58-9

63722-90-7 63722-91-8 63764-58-9
RL: PROC (Process)
(isolation of, from Claviceps paspali)
63722-90-7 HCAPLUS
4H-3, 15a-Epoxy-1-benzoxepino(6',7':6,7]indeno[1,2-b]indol-4-one,
2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-2,2,13b,13c-tetramethyl-1-0-(3-methyl-2-butenyl)-, (3R,5b5,7a5,13b5,13cR,15a5)- (9CI)
(CA INDEX NAME)

L9 ANSWER 60 OF 61 HCAPLUS COPYRIGHT 2007 ACS ON STN
ED Entered STN: 12 May 1984
ACCESSION NUMBER: 1975:564398 HCAPLUS
DOCUMENT NUMBER: 3:164398
TITLE: 3:164398

83:164398
Structure of paxilline, a tremorgenic metabolite of
Penicillium paxilli
Springer, James P.; Clardy, Jon; Wells, John M.; Cole,
Richard J.; Kirksey, Jerry W.
Dep. Chem., Iowa State Univ., Ames, IA, USA
Tetrahedron Letters (1975), (30), 2531-4
CODEN: TELEAY; ISSN: 0040-4039

AUTHOR(5):

CORPORATE SOURCE: SOURCE:

DOCUMENT TYPE: LANGUAGE:

CODEN: TELEAY: ISSN: 0040-4039

MENT TYPE: Journal

LAGE: English

For diagram(s), see printed CA Issue.

Crystals of paxilline (I) were orthorhombic, space group P212121, with a 31.009, b 11.522, and c 7.707 Å; R was 0.04 from 1840 observed reflections. The CD spectrum of I showed pos. Cotton effects for the first 2 bands and a neg. Cotton effect for a third band.

11024-55-8

RL: RCT (Rearrant) NOTE: 1

11024-55-8
RL: RCT (Reactant): RACT (Reactant or reagent)
(as structure for paspalicine)
11024-55-8 HCAPLUS
4H-3,15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one,
2,3,5b,6',7'a,8,13,13b,13c,14,15-dodecahydro-2,2,13b,13c-tetramethyl-,
(3R,5bR,7a5,13b5,13c5,15a5)- (GCI) (CA INDEX NAME)

L9 ANSWER 59 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

63722-91-8 HCAPLUS
4H-3,15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one,
2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-2,2,13b,13c-tetramethyl-, (3R,5bS,7aS,13bS,13cR,15aS)- (9CI) (CA INDEX NAME)

63764-58-9 HCAPLUS

4H-3, 15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one, 2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-5b-hydroxy-10-[(1E)-3-hydroxy-3-methyl-1-butenyl]-2,2,13b,13c-tetramethyl-, (3R,5bS,7aS,13bS,13cR,15aS)-(9CI) (CA INDEX NAME)

L9 ANSWER 61 OF 61 HCAPLUS COPYRIGHT 2007 ACS on STN ED Entered STN: 12 May 1984 ACCESSION NUMBER: 1967: 479 HCAPLUS DOCUMENT NUMBER: 66:479

DOCUMENT NUMBER: TITLE:

AUTHOR (S): CORPORATE SOURCE: SOURCE:

DOCUMENT TYPE:

LANGUAGE:

1501ation of 2 new indole derivatives from the mycelia of Claviceps paspali. Fehr. Th.; Acklin, Werner Tech. Hochsch., Zurich, Switz. Helvetica Chimica Acta (1966), 49(6), 1907-10 CODEN: HCACAV; ISSN: 0018-019X Journal German were extracted with the control of MENT TYPE: Journal SUAGE: German
C. paspali mycelia were extracted with pentane, Et20, CHCl3, or CHCl3-MeOH (2:1, satd, with NH3), and the exts. were separated on a kieselgel G column. Fractions were studied by thin-layer chromatography using kieselgel HF. Indole decive. were detected with the van Urk reagent (Groeger and Erge, CA 60, 367a), green spots with indoles. Rf values for CHCl3 were: 0.7 paspalicin (1); 0.35 paspalin (II), and 0.3 and 0.2 for unknowns. I, C3H3504N, m. 230' (decomposition) (MeOH), [e]D = 173' (c 0.5), is a disubstituted indole with 4 textisory methyls and 1 e,B-unsatd, carbonyl structure. II, C29819302N, m. 264' [a]D = -23' (c 0.36), is a 2,3-disubstituted indole derivative, and contains 5 tertiary methyls, 1 OH, and 1 ether-type 0, and has a 1.74 yield. Acetylation of II gave an 0-Ac derivative, m. 196' (hexane, subbination), [a]D = -17' (c 0.66). The mevalonate origin of II was demonstrated with mevalonate-2-14C. 11024-55-8P
RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of) 11024-55-8 RCAPLUS 4H-3,15a-Epoxy-1-benzoxepino[6',7':6,7]indeno[1,2-b]indol-4-one, 2,3,5b,6,7,7a,8,13,13b,13c,14,15-dodecahydro-2,2,13b,13c-tetramethyl-, (3R,5bR,7as,13bS,13cS,15aS) - (9CI) (CA INDEX NAME)

=> log y		
COST IN U.S. DOLLARS	SINCE FILE	\mathtt{TOTAL}
	ENTRY	SESSION
FULL ESTIMATED COST	354.57	712.83
	•	
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-46.02	-46.02

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